SERVICE
MANUAL

SC-8

marantz®

Model SC-8

Stereo Console Amplifier

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ company has created the ultimate in stereo sound. Only **original MARANTZ parts** can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS:
Parts can be ordered either by mail or by telex. In both cases, MARANTZ part number has to be specified. If you order by mail, fulfil MARANTZ order forms.

MARANTZ S.A.
EUROPEAN PARTS DEPARTMENT
2, Avenue Léopold III
B-7120 PERONNES-lez-BINCHE
BELGIUM
TWX: 57589 SEPLT B

The following information must be supplied to eliminate delays in processing your order:

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature: any order form or telex must be signed otherwise such part order will be considered as null and void.

PARTS ORDERING:
Parts may be ordered from the following addresses:

EUROPE

MARANTZ S.A.
European Parts Department
2, Avenue Léopold III
B-7120 Péronnes-lez-Binche
Belgium
Telex: 57589

MARANTZ NORSKE A.S.
Refstadalleen 13
Oslo 5
Norway
Telex: 19659

MARANTZ DENMARK
Bregnerødvej 132b
3460 Birkerød
Denmark
Telex: 39137

MARANTZ GMBH AUSTRIA
Wiedner Hauptstrasse 98
1050 Wien
Austria
Telex: 113583

MARANTZ S.A.
326 Avenue Louise Bte 32
1050 Brussels
Belgium
Telex: 26602

MARANTZ FRANCE
4 Rue Bernard Palissy
92600 Asnières
France
Telex: 611651

MARANTZ BELGIUM
45 Rue Auguste Van Zande
1080 Brussels
Belgium

MARANTZ SVENSKA A.B.
Svartviksvangen 56
Traneberg - Box 12016
16112 Bromma
Sweden
Telex: 13449

MARANTZ GERMANY GMBH
Max Planckstrasse, 22
6072 DREIEICH 1
West Germany
Telex: 4185316

MARANTZ AUDIO U.K. LTD.
Unit 15/16
Saxon Way Industrial Estate
Moor Lane
Harmondsworth UB7 OLW
Great Britain
Telex: 935196

AUSTRALIA

MARANTZ AUSTRALIA PTY., LTD.
32 Cross Street
Brookvale, N.S.W. 2100
Australia
Telex: 24121

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please, contact the nearest facility for the necessary assistance.

In case of difficulties, do not hesitate to contact the Technical Department at abovementioned address.

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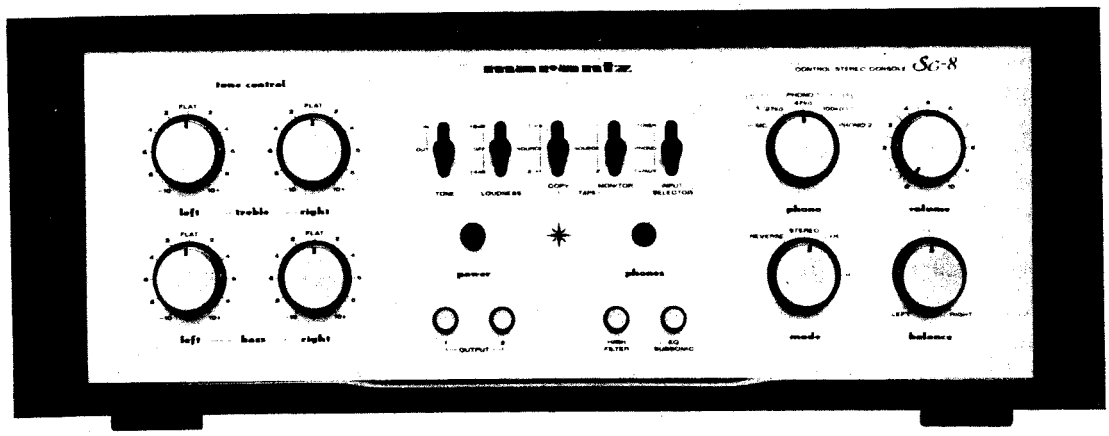
MARANTZ MODEL Sc-8 STEREO CONSOLE AMPLIFIER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Staions and contains service information for the Marantz Model Sc-8 Stereo Console Amplifier.

Servicing information and voltage data included in this manual are intended for use by knowledgeable and experienced personnel only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of circuitry operation.

The parts list furnishes complete ordering information. Most replacement parts should be ordered from the Marantz Company. However, a simple description is included for parts which can be obtained locally.

1. SHOCK, FIRE HAZARD SERVICE TEST

CAUTION: After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verfied before return to user/customer.

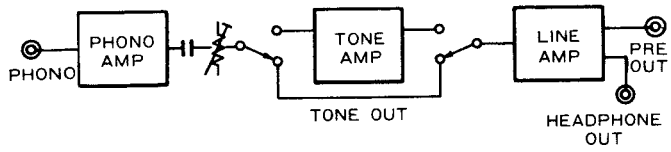
Ref. UL Standard No. 1270. Para. 66. 3. D (Mandatory Test after servicing Electrical Appliances, effective 7-1-83).

2. FEATURES

- **MC Head Amplifier (13 transistors for each channel)**
  The MC head amplifier uses a push-pull amplifier in the first stage which consists of 4 very low noise NPN transistors and 4 very low noise PNP transistors. It uses also push-pull transistors in the second stage and an SEPP circuit in the output stage.
  The feedback circuit impedance is reduced as much as possible to improve the S/N ratio, and a voltage gain of 26 dB (20 times) is obtained at a rated input level of 110 μV.

- **PHONO Amplifier (11 transistors for each channel)**
  The PHONO amplifier uses full push-pull circuits consisting of 11 transistors for each channel, so low TIM distortion and a high S/N ratio are obtained.
  The first stage is a push-pull circuit consisting of very low noise, high Gm N channel and P channel FETs, combined with a cascode current Miller circuit so that degradation of characterisitics of following circuits due to input stage impedance fluctuations is prevented.
  The second stage consists of an emitter follower buffer amplifier and a push-pull voltage amplifier.
  The output stage uses an SEPP circuit which is adequate to any type of load. The equalizer elements have very low impedance compared with conventional equalizer circuits, so a S/N ratio of 90 dB is obtained at the rated input level.
  The equalizer elements used are metal film resistors with tolerance of 1% and polypropylene capacitors with tolerances of 2%, so RIAA phono equalization of ±0.2 dB is obtained over the audio range from 20 Hz to 20 kHz.
  The input impedances of 27 kΩ, 47 kΩ and 100 kΩ are provided to allow different cartridges to be connected when the PHONO 1 input is selected.
  The output stage is provided with a relay to mute undesireable noise when the power is switched ON and OFF, and with an EQ subsonic filter to reduce turntable rumble and flutter noise.

- **TONE Switch**
  The TONE switch allows the number of coupling capacitors to be reduced to one by applying the PHONO amplifier output signal directly to the line amplifier when the switch is set to the TONE OUT position. The gain and input sensitivity are not changed by operating this switch.



- **Line Amplifier**
  The line amplifier consists of 15 transistors for each channel, and uses push-pull circuits which operate in class A in all stages to reduce TIM distortion and improve the S/N ratio.
  The input stage uses a source follower with dual FETs to prevent it (the input stage) from affecting following stage characteristics. The source follower output signal is applied to the differential amplifier through dual transistors.
  One of the differential amplifier output signals is phase-inverted, then both output signals are applied to the second stage push-pull amplifier through buffer amplifiers.

The power amplifier stage uses newly developed, super high f_T (200 – 250 MHz) power transistors which are connected in a Darlington configuration. This power amplifier stage operates in pure class A, and features flat frequency response and low TIM distortion. This amplifier can drive headphones in class A operation, as well as a main amplifier.

3. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model Sc-8 consists of the following units. Each unit mounted on a printed circuit board is descrided within the square enclosed by a bold dotted line on the circuit diagram.

1. **MC Phono . . . . . mounted on P.W. Board P400**
2. **Power Supply . . . . . mounted on P.W. Board P800**
3. **Tone Amp. (L-Ch) . . . mounted on P.W. Board PE01**
4. **Tone Amp. (R-Ch) . . . mounted on P.W. Board PE02**
5. **Balance VR/ Mode Switch . . . . . mounted on P.W. Board PG00**
6. **Loudness Switch & Volume . . . . . mounted on P.W. Board PJ00**
7. **Input Selector Switch . mounted on P.W. Board PS01**
8. **Tone In/Out Switch . . mounted on P.W. Board PT00**
9. **Headphone . . . . . mounted on P.W. Board PX00**
10. **L.E.D. . . . . mounted on P.W. Board PY00**

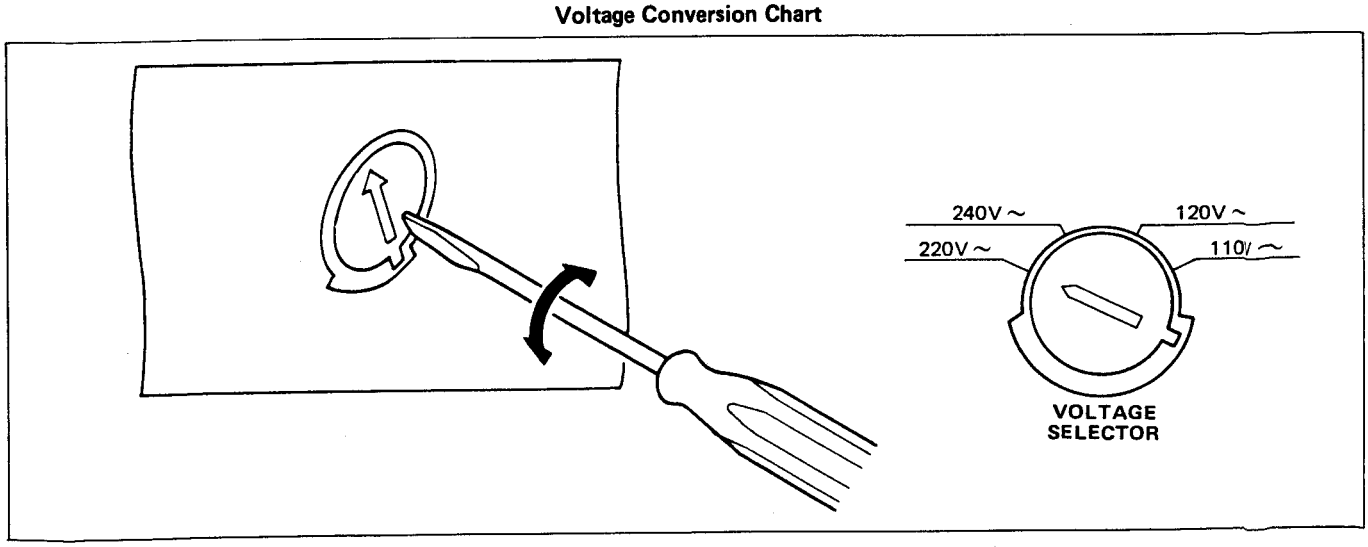
4. VOLTAGE CONVERSION

- **EUROPEAN MODEL ONLY**

To convert the unit to a different power source voltage, change the position as illustrated in the drawing below.

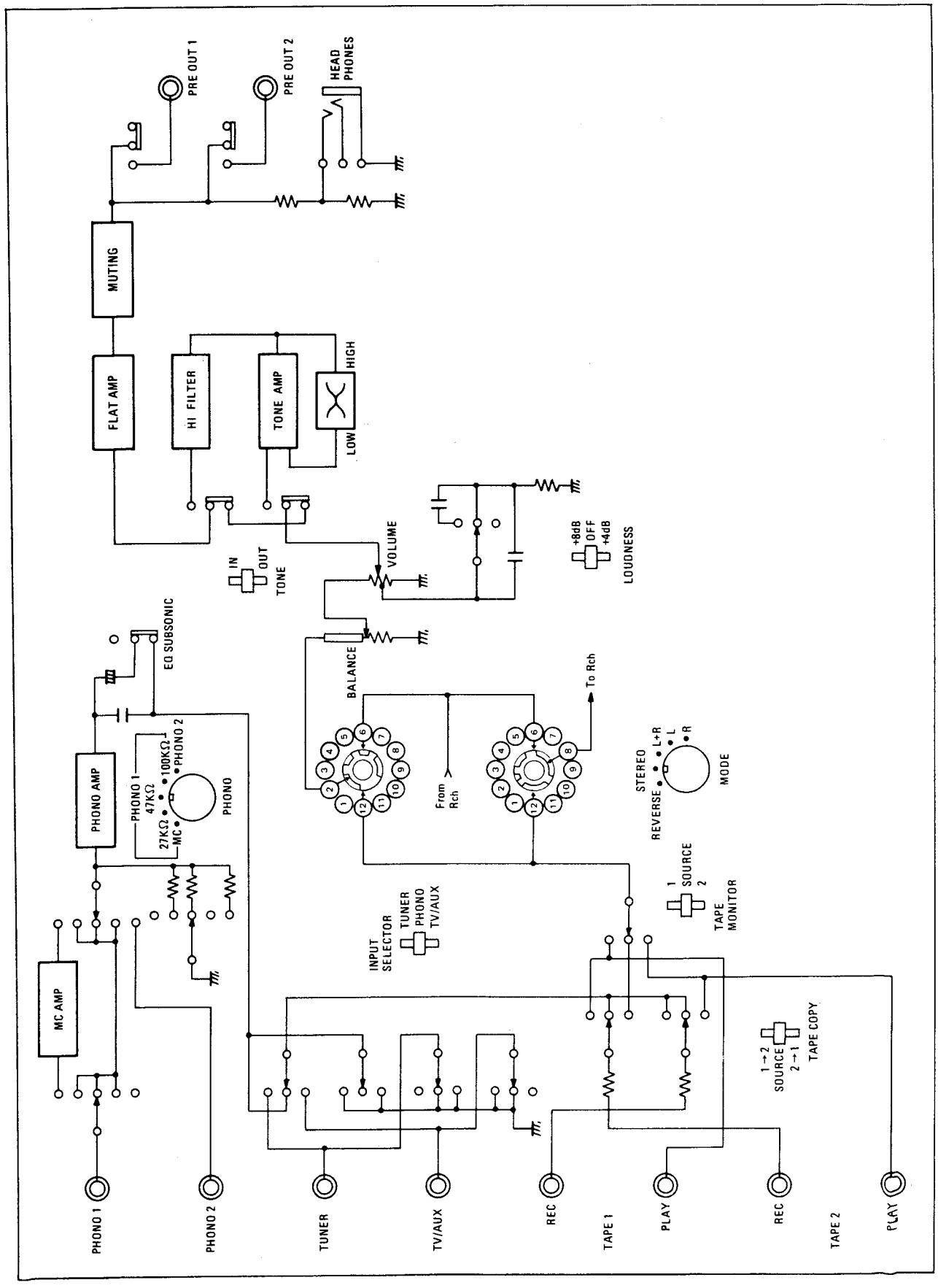
CAUTION
DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

Voltage Conversion Chart



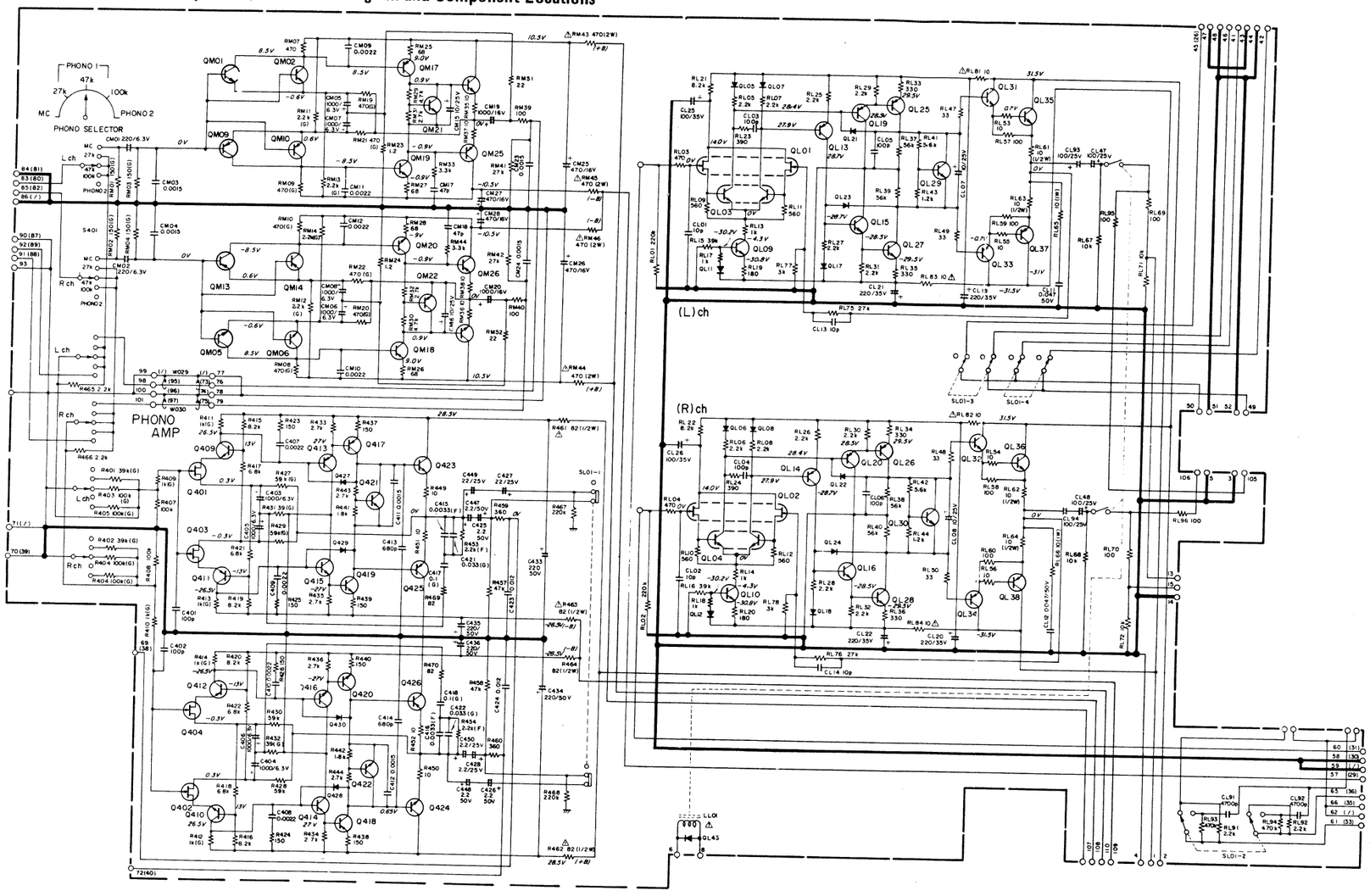
Note on safety: Symbol ⚠ Fire or electrical shock hazard. Only orignal parts should be used to replace any part marked with symbol ⚠ . Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

5. BLOCK DIAGRAM

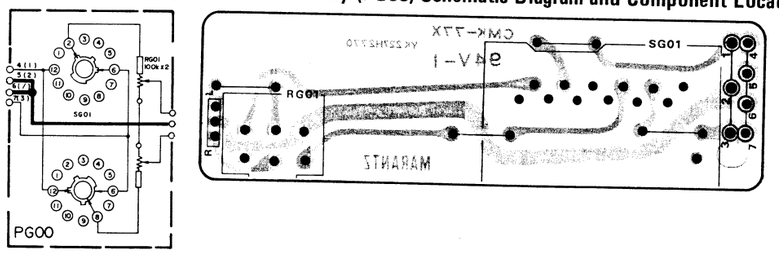


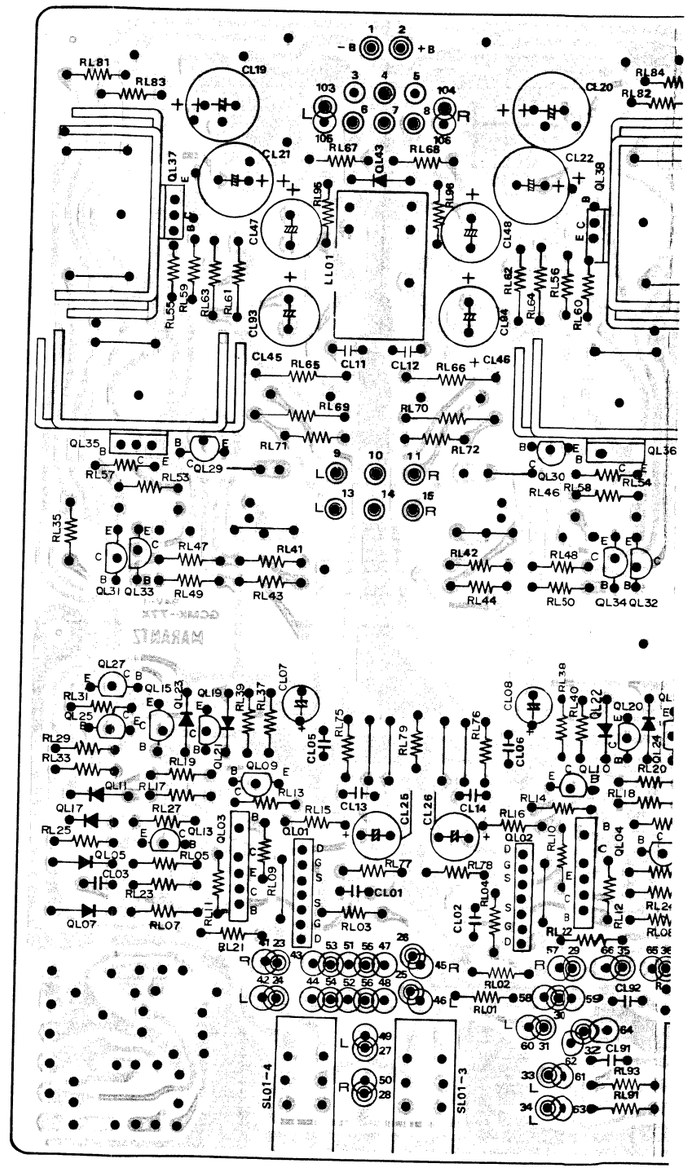
6. DIAGRAM AND COMPONENT LOCATIONS

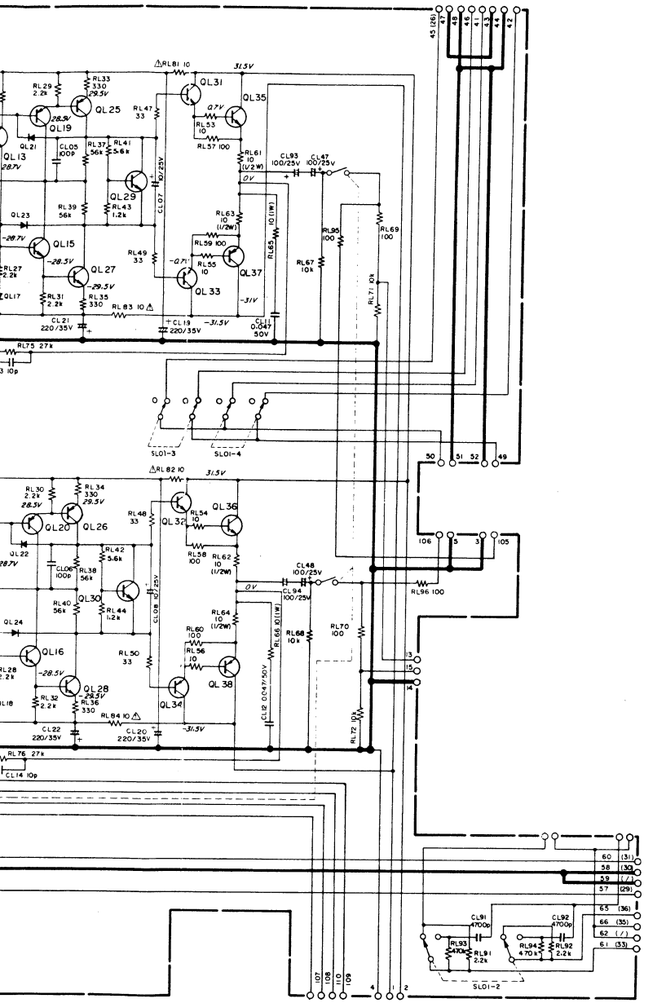
6.1 MC Phono Assembly (P400) Schematic Diagram and Component Locations

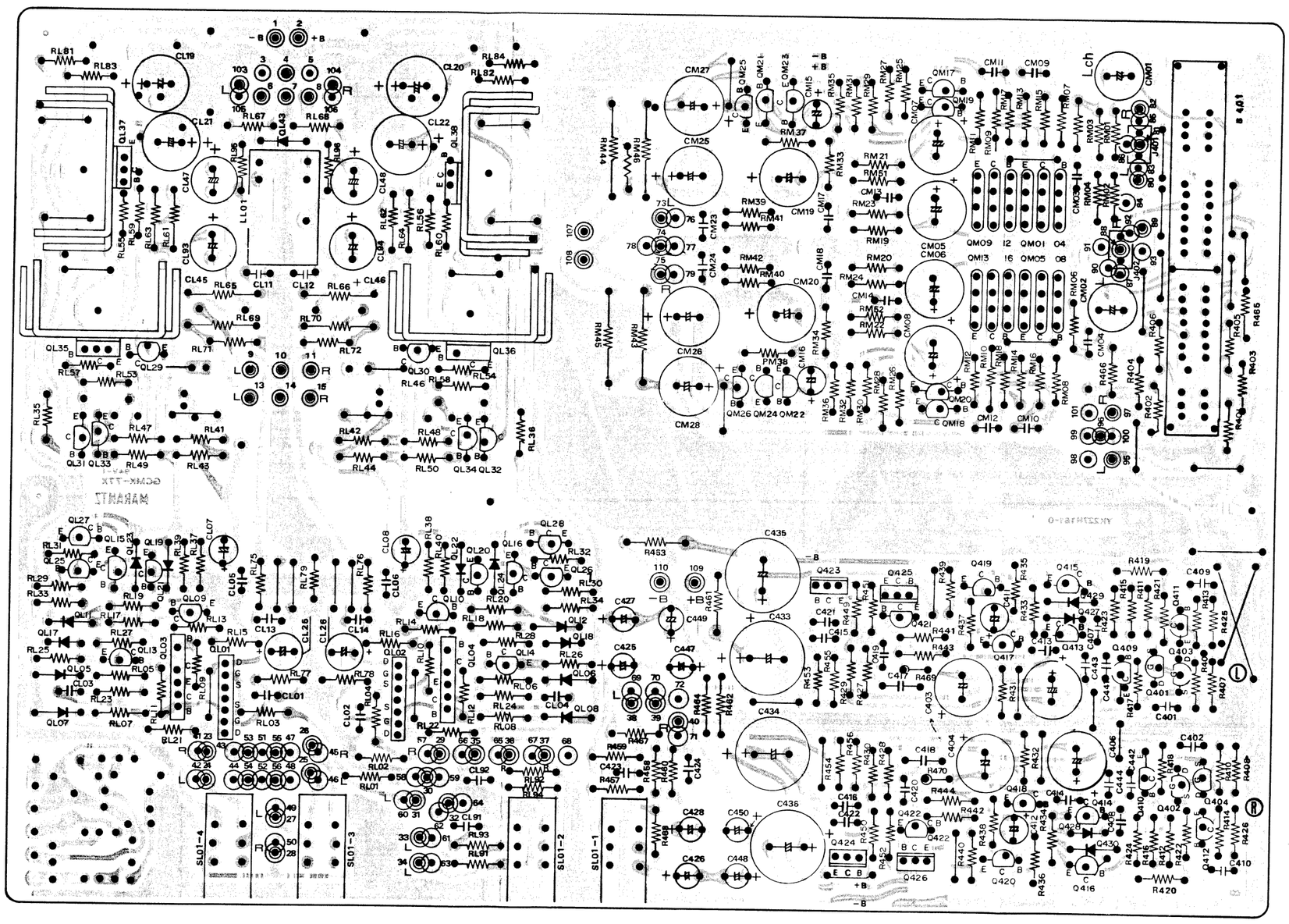


6.2 Balance VR/Mode Switch Assembly (PG00) Schematic Diagram and Component Locations

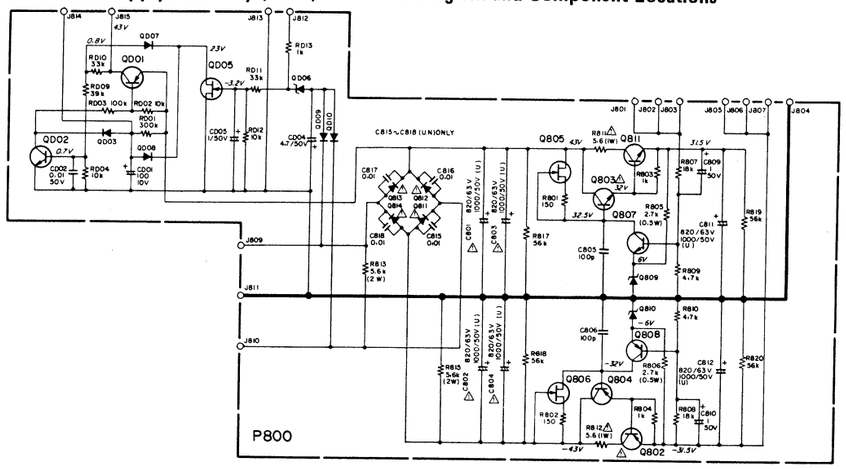


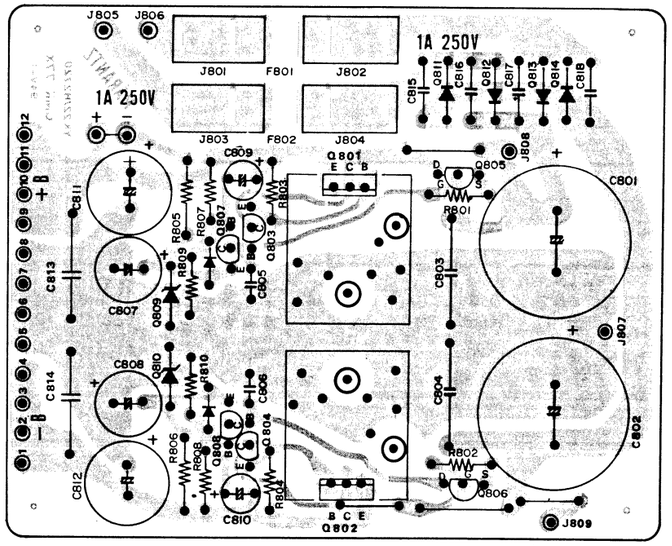




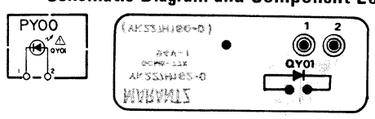


6.3 Power Supply Assembly (P800) Schematic Diagram and Component Locations

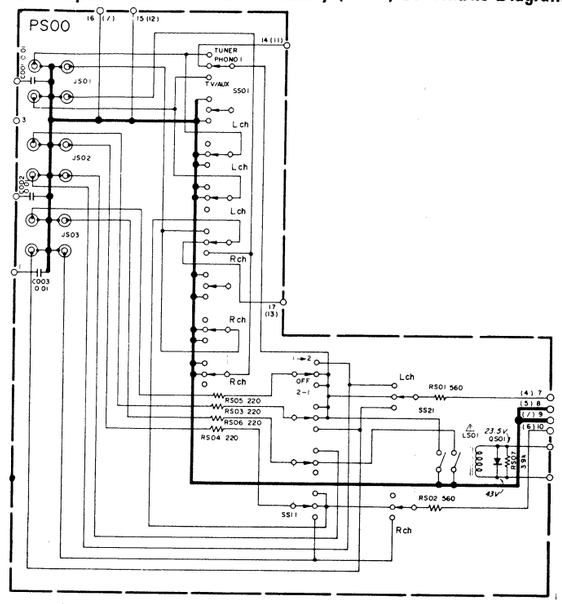


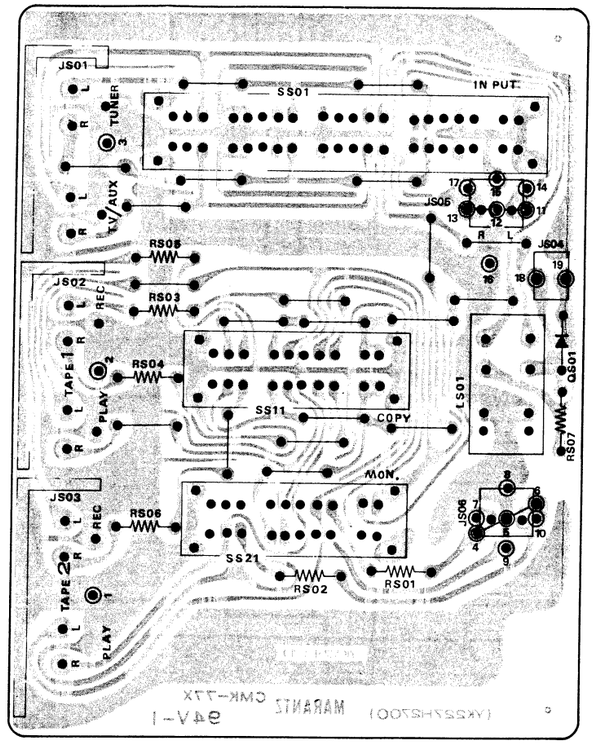


6.4 L.E.D. Assembly (PY00) Schematic Diagram and Component Locations

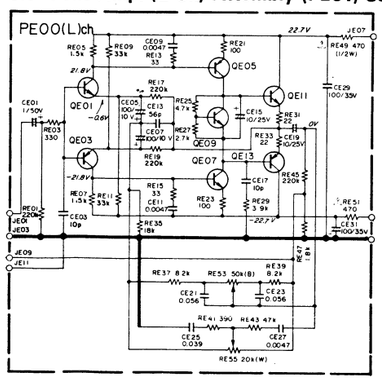


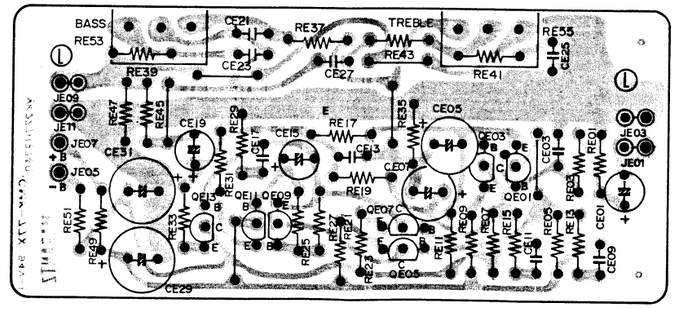
6.5 Input Selector Switch Assembly (PS01) Schematic Diagram and Component Locations



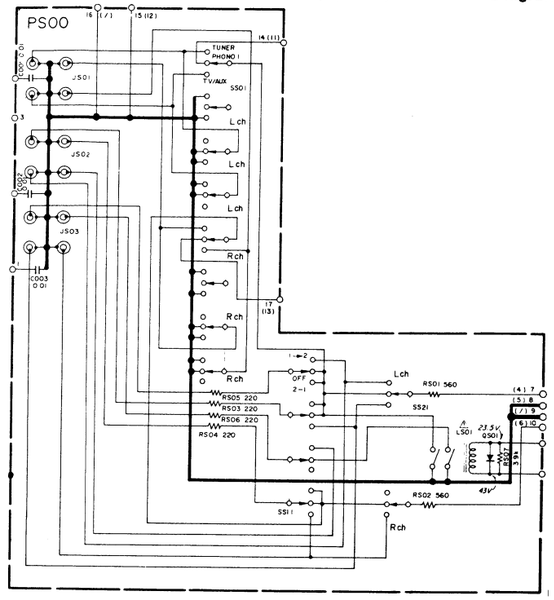


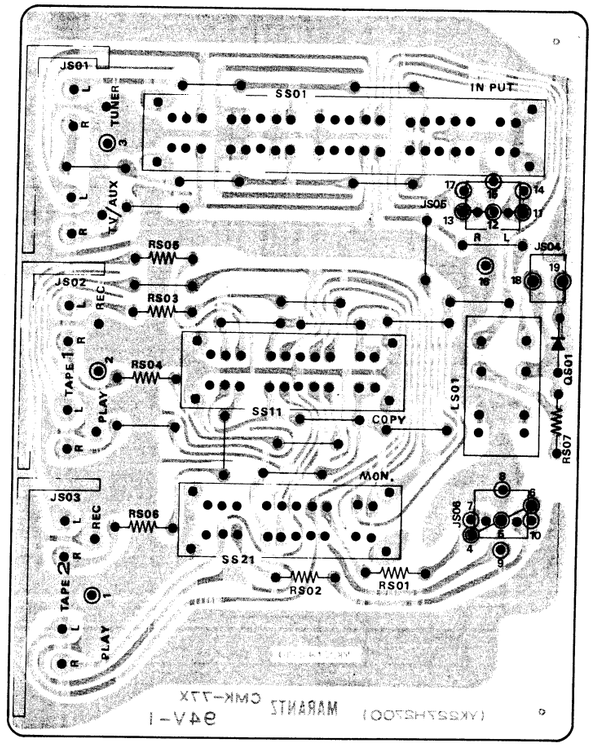
6.6 Tone Amp. (L-Ch) Assembly (PE01) Schematic Diagram and Component Locations



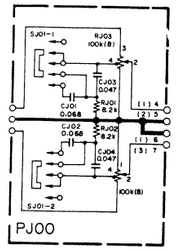


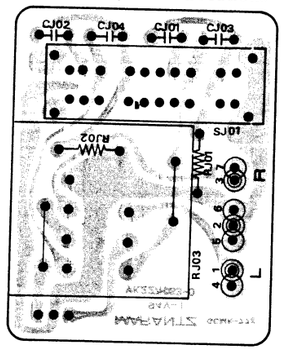
6.5 Input Selector Switch Assembly (PS01) Schematic Diagram and Component Locations



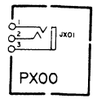


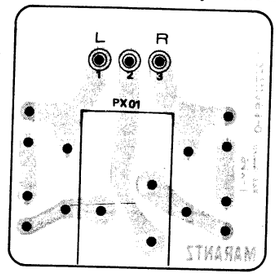
6.7 Loudness Switch & Volume Assembly (PJ00) Schematic Diagram and Component Locations



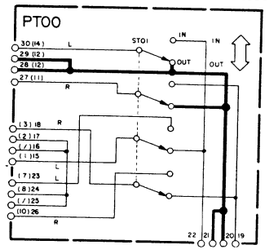


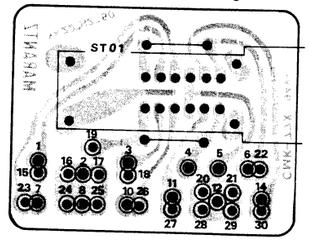
6.8 Headphone Assembly (PX00) Schematic Diagram and Component Locations



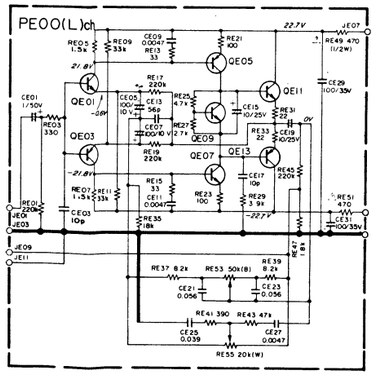


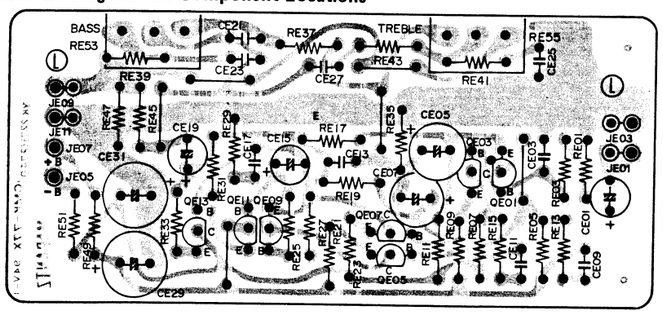
6.9 Tone In/Out Switch Assembly (PT00) Schematic Diagram and Component Locations



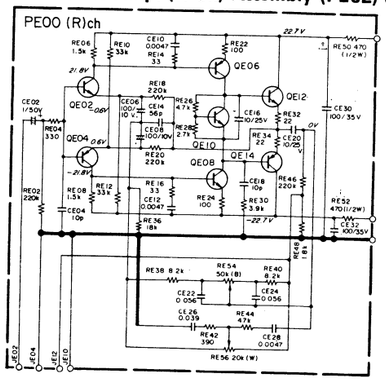


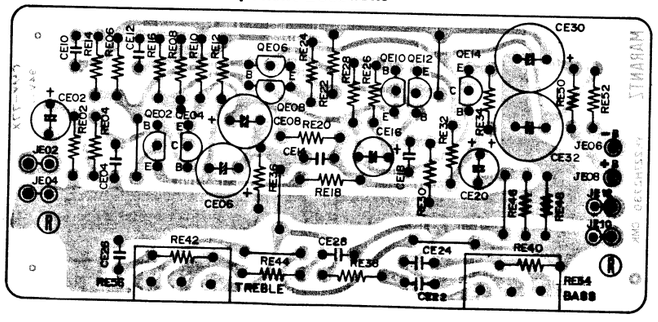
6.6 Tone Amp. (L-Ch) Assembly (PE01) Schematic Diagram and Component Locations





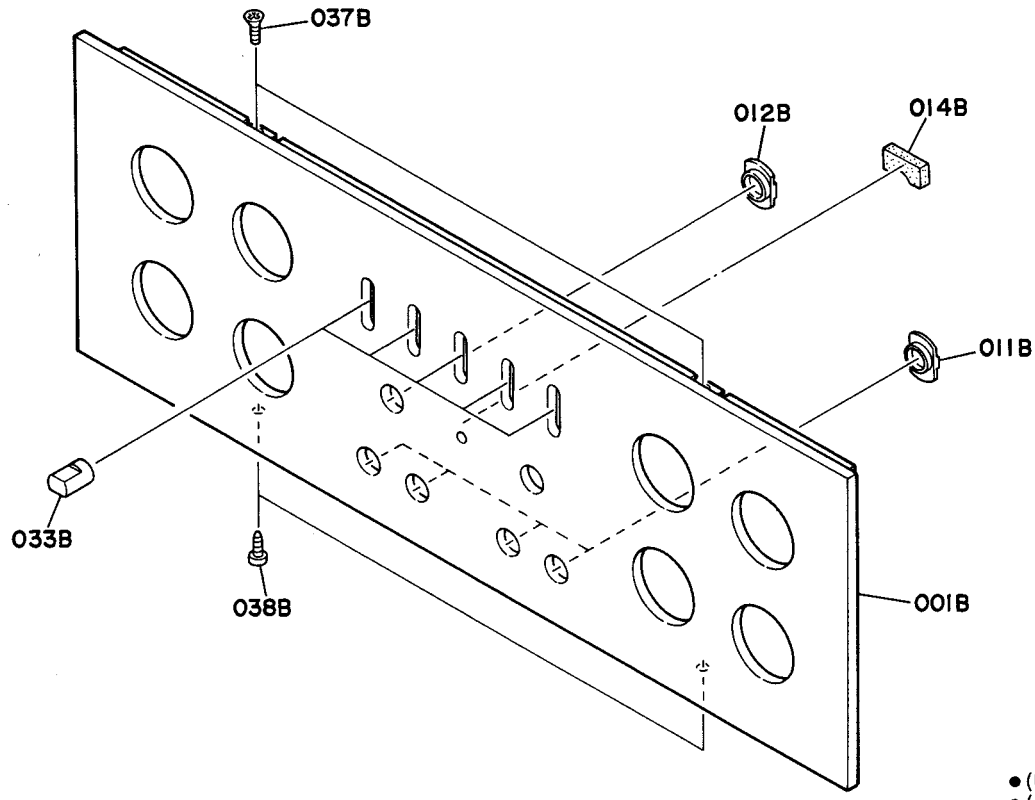
6.10 Tone Amp. (R-Ch) Assembly (PE02) Schematic Diagram and Component Locations





7. EXPLODED VIEW AND PARTS LIST

- [C01-99] Front Panel

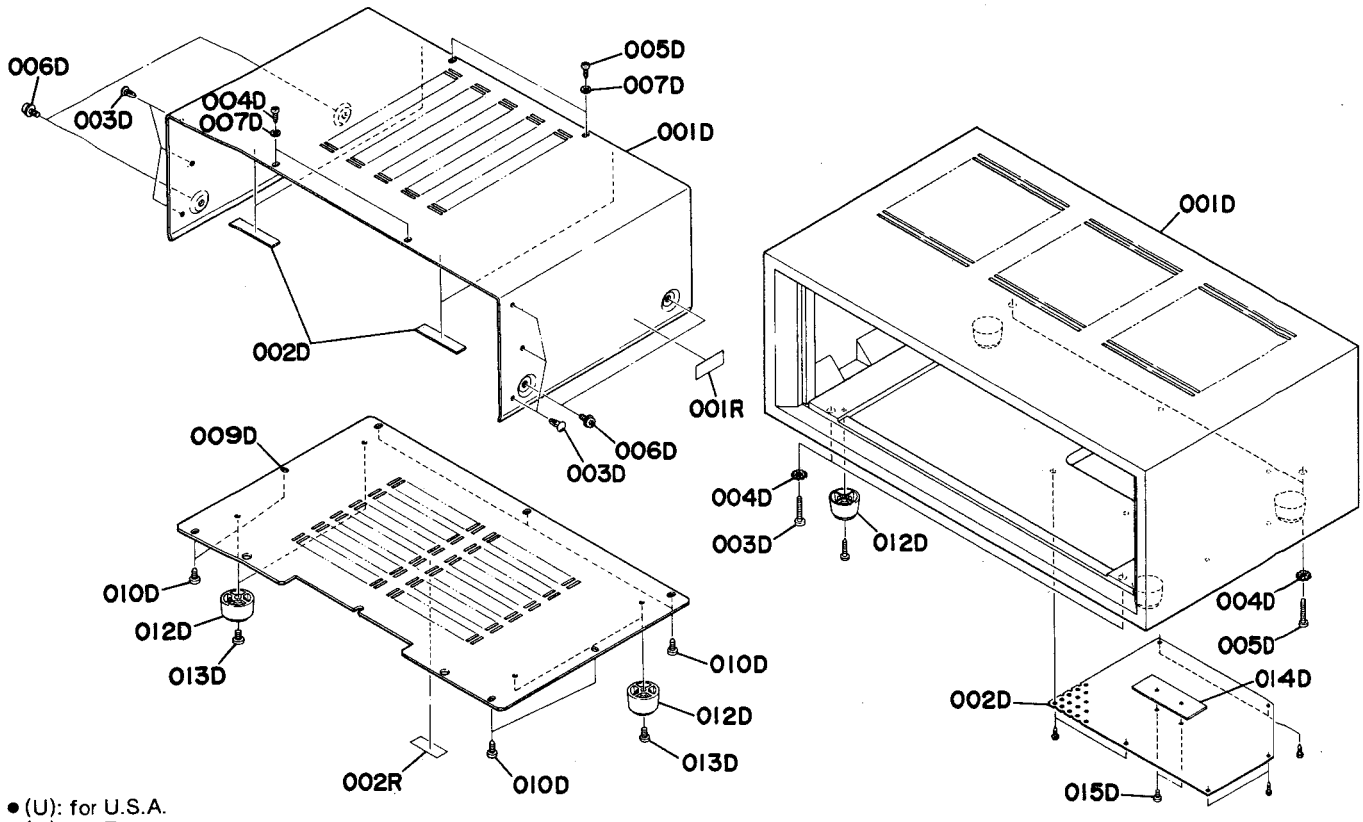


- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
A	1	1	1	227H063400	Front Panel Assembly
001B	1	1	1	227H063010	Escutcheon, Front Panel
011B	4	4	4	2978259110	Bushing
012B	1	1	1	2978259110	Bushing, Power Switch
014B	1	1	1	2112053030	Cover

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
033B	5	5	5	227H154030	Knob, Lever Switch
037B	2	2	2	5150308Z0	F.H. Tapped Screw F3 x 8
038B	2	2	2	5128308Z0	B.H. Tapped Screw F3 x 8

- [C02-99] Lid (Top and Bottom Cover)

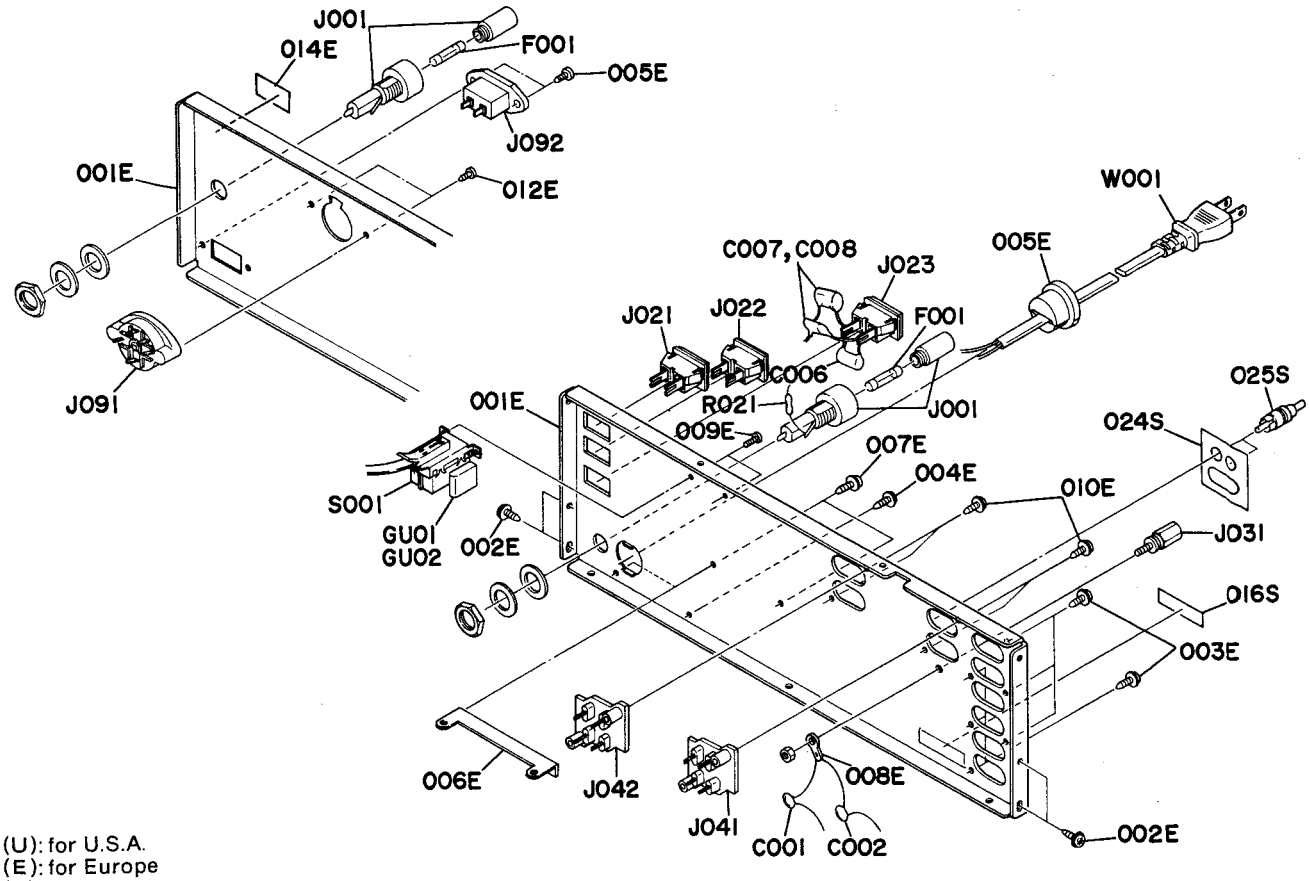


- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION	
001D	1	1		2462257010	Lid, Top Cover	
001D			1	227H064500	Case, Wood	
002D	4	4		2965118010	Spacer	
002D			1	227H003010	Punched Plate	
003D	6	6		2991259110	Bushing	
003D			2	51280425U0	B.H. Tapped Screw	B4 x 25
004D	2	2		51260310Z0	B.T. Screw	B3 x 10
004D			4	54080400R0	T.L. Washer, RR	
005D	2	2		51260308Z0	B.T. Screw	B3 x 8
005D			2	51280425U0	Special Nut	B4 x 25

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION	
006D	4	4		51480406Z9	F. Washer Screw	F4 x 6
007D	4	4		5903080550	Washer	
009D	1	1		2978257030	Lid, Bottom Cover	
010D	7	7		51280410U0	B.H. Tapped Screw	B4 x 10
012D	4	4	4	2932057010	Leg	
013D	4	4		51570410U0	P. Tapped Screw	P4 x 10
014D	1	1	1	2147109010	Shield	
015D	2	2	2	51282606U0	B.H. Tapped Screw	B2.6 x 6
001R	1	1		2911861140	Label	
002R	1	1		2911861110	Label	

● [C03-99] Rear Panel

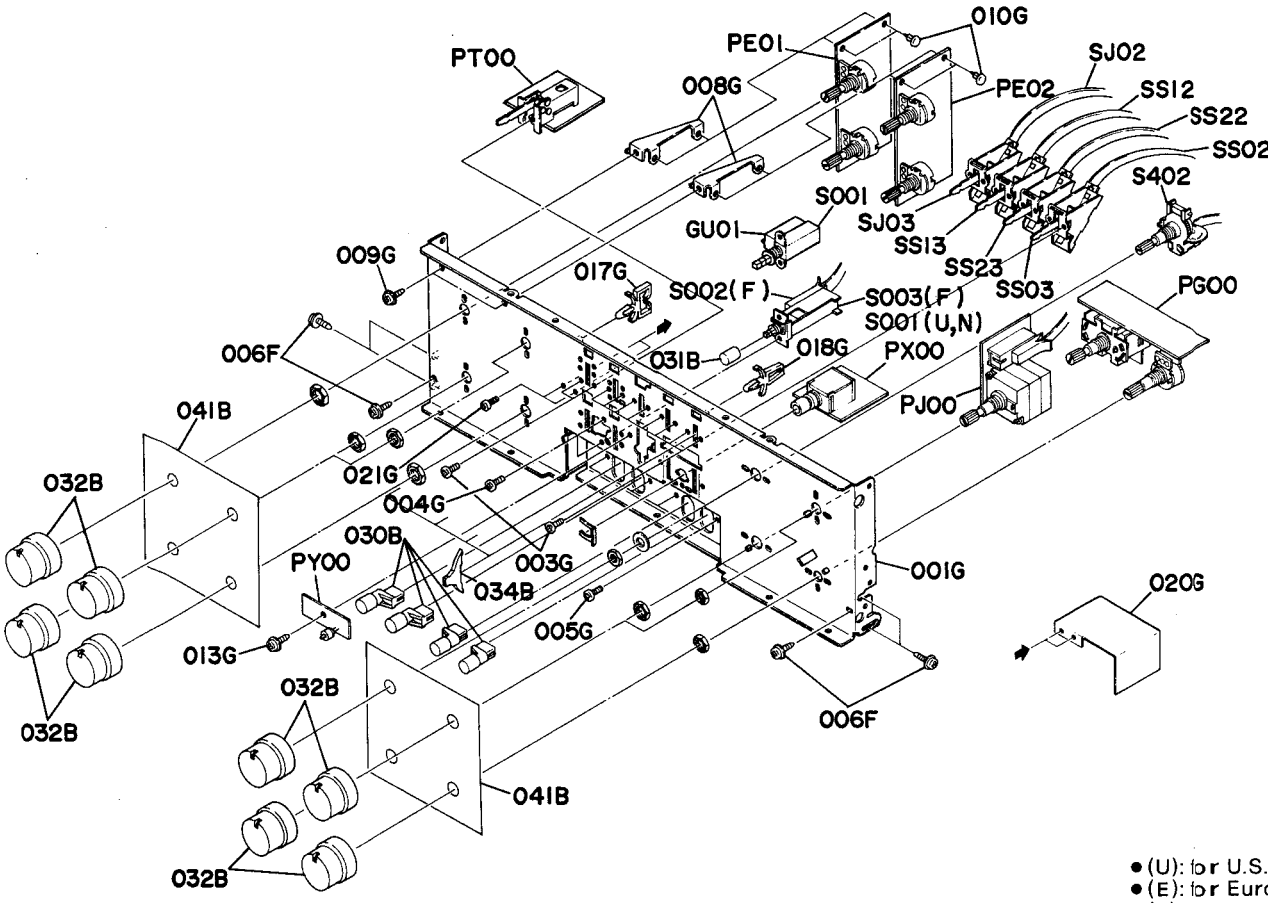


● (U): for U.S.A.
● (E): for Europe
● (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
001E	1			227H160240	Bracket, Rear Panel
001E		1		227H160230	Bracket, Rear Panel
001E			1	227H160210	Bracket, Rear Panel
002E	4	4	4	51260308Z0	B.T. Screw B3 x 8
003E	6	6	6	51260308Z0	B.T. Screw B3 x 8
004E	2	2	2	51260308Z0	B.T. Screw B3 x 8
005E	1			1455259090	Bushing, AC Cord
005E		2		51870308U0	O.C.H. Tapped Screw O3 x 8
005E			1	1455259120	Bushing, AC Cord
006E	1	1	1	2147160020	Bracket
007E	2	2	2	51260308Z0	B.T. Screw B3 x 8
008E	1	1	1	62040029W0	Lug
009E			2	51100308Z0	B.H.M. Screw B3 x 8
010E	4	4	4	51260208Z0	B.T. Screw B3 x 8
012E		2		51280308U0	B.H. Tapped Screw B3 x 8
014E		1		4581861010	Label
016S	1	1	1	2112265010	Indicator
024S	1	1	1	2147863010	Hang Tag
025S	2	2	2	YQ01000020	Shote Plug
C001	1	1	1	DK18103310	Ceramic Cap. 0.01μF 50V
C002	1	1	1	DK18103310	Ceramic Cap. 0.01μF 50V

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
⚠F001	1			FS10100500	Fuse 1A 250V
⚠F001		1		FS10050800	Fuse 0.5A 250V
⚠F001			1	FS10100600	Fuse 1A 250V
⚠GU01			1	BF10400030	Cap. Comp. 0.1μF + 120Ω
⚠GU02			1	BF10400030	Cap. Comp. 0.1μF + 120Ω
⚠J001	1			YJ08000310	Jack, Fuse Holder
⚠J001		1		YJ08000290	Jack, Fuse Holder
⚠J001			1	YJ08000300	Jack, Fuse Holder
⚠J021	1		1	YJ04000910	Jack, AC Inlet
⚠J022	1		1	YJ04000910	Jack, AC Inlet
⚠J023	1		1	YJ04000910	Jack, AC Inlet
J031	1	1	1	YT01010050	Terminal, GND
J041	1	1	1	YT02040430	Pin Jack, (4P)
J042	1	1	1	YT02040430	Pin Jack, (4P)
⚠J091		1		BY05080030	Voltage Selector
⚠J092		1		YP04000590	Plug, AC Inlet
R021			1	GD05104140	Resistor 100KΩ ±5% ¼W
⚠S001			1	SS02020630	Slide Switch, Remote Power SW
⚠W001	1			YC02000130	A.C. Power Cord
⚠W001		1		ZC01805030	A.C. Power Cord
⚠W001			1	YC01800240	A.C. Power Cord

• [P01-99] Front Chassis and General Parts

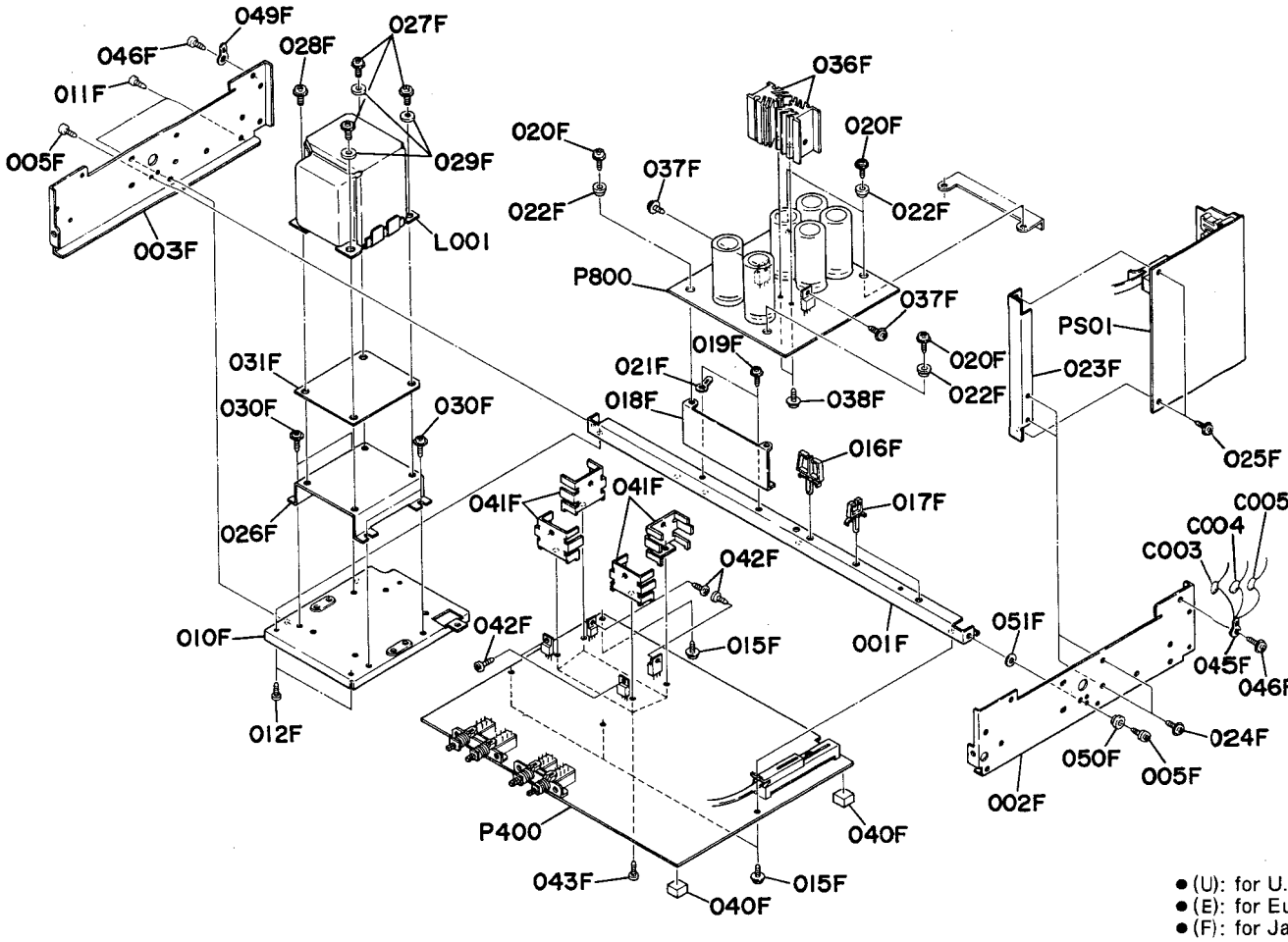


- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
030B	4	4	4	227H154020	Knob, Push Switch
031B	1	1	1	2970154630	Knob, Power Switch
032B	8	8	8	227H154040	Knob
034B	5	5	5	2144259110	Bushing, Lever Switch
041B	2	2	2	223H303010	Mask
006F	6	6	6	51260308Z0	B.T. Screw B3 x 8
001G	1	1		2147160010	Bracket, Front Chassis
001G			1	2147160110	Bracket, Front Chassis
003G	10	10	10	51100306A9	B.H.M. Screw B3 x 6
004G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
005G	4	4	4	51100306A9	B.H.M. Screw B3 x 6
008G	2	2	2	2144160130	Bracket
009G	2	2	2	51260308Z0	B.T. Screw B3 x 8
010G	4	4	4	2276005050	Clamper
013G	1	1	1	51260308Z0	B.T. Screw B3 x 8
017G	1	1	1	2886005060	Clamper
018G	1	1	1	2886005050	Clamper
020G	1	1		2144109020	Shield
021G	2	2		51100306A9	B.H.M. Screw B3 x 6

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
⚠S001	1			SP01010280	Push Switch, Power
⚠S001		1		SP01010410	Push Switch, Power
S002			1	SB11900020	Switch Band, FLX
S003			1	SP00010030	Push Switch, Power
SJ02	1	1	1	SB12470010	Switch Band, FLX
SJ03	1	1	1	SC00030010	Switch, Loudness
SS02	1	1	1	SB12170010	Switch Band, FLX
SS03	1	1	1	SC00030010	Switch, Input Selector
SS12	1	1	1	SB12470010	Switch Band, FLX
SS13	1	1	1	SC00030010	Switch, Tape Copy
SS22	1	1	1	SB12470010	Switch Band, FLX
SS23	1	1	1	SC00030010	Switch, Tape Monitor
S402	1	1	1	SR00050110	Rotary Switch
⚠GU01	1			BF10400030	Cap. Comp. 0.1μF + 120Ω
⚠GU01		1		DK18103840	Ceramic 0.01μF 400V AC

● [P02-99] Main Amp. P.W. Board and General Parts

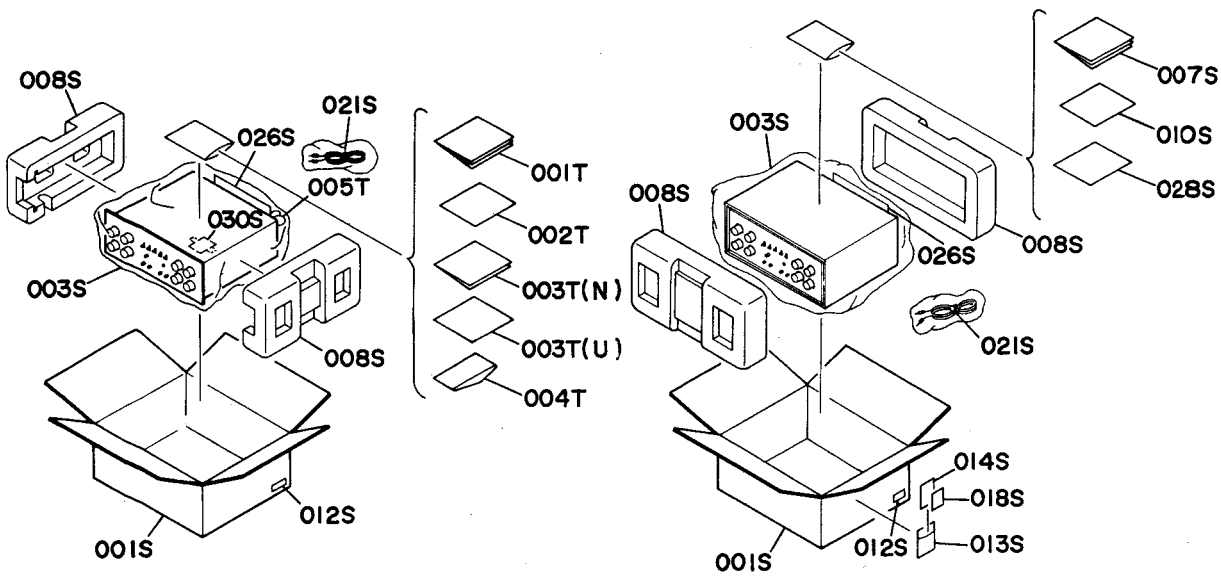


● (U): for U.S.A.
● (E): for Europe
● (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
001F			1	2147126110	Stay, Center
002F			1	2978160130	Bracket, Side Chassis (R)
003F			1	2978160140	Bracket, Side Chassis (L)
005F	2	2	2	51280312Z0	B.T. Screw B3 x 12
010F			1	2147004110	Table Transformer
011F	2	2	2	51260308Z0	B.T. Screw B3 x 8
012F	2	2	2	51260308Z0	B.T. Screw B3 x 8
015F	4	4	4	51260306Z0	B.T. Screw B3 x 6
016F	1	1	1	2886005030	Clamper
017F	2	2	2	2886005050	Clamper
018F			1	2147160130	Bracket
019F	2	2	2	51260308Z0	B.T. Screw B3 x 8
020F	4	4	4	51260308Z0	B.T. Screw B3 x 8
021F	1	1	1	62030049W0	Lug
022F	4	4	4	227H259020	Bushing
023F			1	2147160140	Bracket
024F	2	2	2	51260306Z0	B.T. Screw B3 x 6
025F	2	2	2	51260306Z0	B.T. Screw B3 x 6
026F	1	1	1	227H160050	Bracket
027F	3	3	3	51480410S9	F. Washer Screw F4 x 10
001F	1	1		2147126010	Stay Center
002F	1	1		2978160030	Bracket Side Chassis (R)
003F	1	1		2978160040	Bracket Side Chassis (L)
010F	1	1		2147004010	Table Transformer
018F	1	1		2147160010	Bracket
023F	1	1		2147160040	Bracket

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
028F			1	51480406Z9	F. Washer Screw F4 x 6
029F			3	227H259010	Bushing
030F	4	4	4	51260408Z0	B.T. Screw B4 x 8
031F			1	227H120020	Insulator
036F	2	2	2	2147267010	Heatsink
037F	2	2	2	51260308Z0	B.T. Screw B3 x 8
038F	2	2	2	51260308Z0	B.T. Screw B3 x 8
040F	2	2	2	2147056010	Buffer
041F	4	4	4	2212267020	Heatsink
042F	4	4	4	51260308Z0	B.T. Screw B3 x 8
043F	4	4	4	51280308Z0	B.H. Tapped Screw B3 x 8
045F	1	1	1	62030049W0	Lug
046F	2	2	2	51260306Z0	B.T. Screw B3 x 6
049F	1	1	1	62030049W0	Lug
050F	1	1	1	2963259010	Bushing
051F	1	1	1	2232118300	Spacer
C003	1	1	1	DK18103310	Ceramic Cap. 0.01μ F
C004	1	1	1	DK18103310	Ceramic Cap. 0.01μ F
C005	1	1	1	DK18103310	Ceramic Cap. 0.01μ F
⚠L001	1			TS16634030	Power Transformer
⚠L001		1		TS16634020	Power Transformer
⚠L001			1	TS16634010	Power Transformer

● [H01-99] Packing Materials



(U,N) TYPE

(F) TYPE

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
001S		1		227H801010	Packing Case
001S	1			227H801020	Packing Case
001S			1	227H801030	Packing Case
003S	1	1	1	9091111030	Polyethylene Sheet
007S			1	227H851110	Instructions
008S	2	2		2970809010	Cushion
008S			2	206H809010	Cushion
010S			1	9631000130	Guarantee Card
012S	2			9526019010	Serial No. Card
012S		2		9526019060	Serial No. Card
012S			2	9526019040	Serial No. Card
013S			1	128T854010	Guarantee Card
018S			1	9650000030	S. Station Card
021S	1		1	ZD01000240	Connective Cord
021S		1		ZD01000170	Connective Cord
026S	1	1	1	2864804010	Sleeve
028S			1	9611000030	User's Card
030S		1		2731821010	Silicagel

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
001T	1			227H851010	Instructions
001T		1		227H851310	Instructions
002T	1			227H851020	Instructions, Spec
002T		1		227H851320	Instructions, Spec
003T	1			103H854010	Guarantee Card
003T		1		227H856010	Circuit Diagram
004T	1			2225813010	Envelope
005T	1			9560000100	Hang Tag

8. ELECTRICAL PARTS LIST

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					P400-MC PHONO CIRCUIT BOARD
P400	1	1	1	YK227H1610	P.W. Board, MC Phono
	1	1		ZZ227H1610	P.W. Board Assembly
					P400-CAPACITORS
CL01	1	1	1	DF31100520	Mica 10p F ±0.5pF
CL02	1	1	1	DF31100520	Mica 10p F ±0.5pF
CL03	1	1	1	DF35101520	Mica 100p F ±5%
CL04	1	1	1	DF35101520	Mica 100p F ±5%
CL05	1	1	1	DF35101520	Mica 100p F ±5%
CL06	1	1	1	DF35101520	Mica 100p F ±5%
CL07	1	1	1	OA10602510	Elect 10μ F 25V
CL08	1	1	1	OA10602510	Elect 10μ F 25V
CL11	1	1	1	DF75473530	Film 0.047μ F ±5%
CL12	1	1	1	DF75473530	Film 0.047μ F ±5%
CL13	1	1	1	DF31100520	Mica 10p F ±0.5pF
CL14	1	1	1	DF31100520	Mica 10p F ±0.5pF
CL19	1	1	1	OA47703510	Elect 470μ F 35V
CL20	1	1	1	OA47703510	Elect 470μ F 35V
CL21	1	1	1	OA47703510	Elect 470μ F 35V
CL22	1	1	1	OA47703510	Elect 470μ F 35V
CL25	1	1	1	EA10703540	Elect 100μ F 35V
CL26	1	1	1	EA10703540	Elect 100μ F 35V
CL47	1	1	1	OA10702510	Elect 100μ F 25V
CL48	1	1	1	OA10702510	Elect 100μ F 25V
CL91	1	1	1	DF75472530	Film 0.0047μF ±5%
CL92	1	1	1	DF75472530	Film 0.0047μF ±5%
CL93	1	1	1	OA10702510	Elect 100μ F 25V
CL94	1	1	1	OA10702510	Elect 100μ F 25V
CM01	1	1	1	EO22700610	Elect 220μ F 6.3V
CM02	1	1	1	EO22700610	Elect 220μ F 6.3V
CM03	1	1	1	DF75152530	Film 0.0015μF ±5%
CM04	1	1	1	DF75152530	Film 0.0015μF ±5%
CM05	1	1	1	OA10800610	Elect 1000μ F 6.3V
CM06	1	1	1	OA10800610	Elect 1000μ F 6.3V
CM07	1	1	1	OA10800610	Elect 1000μ F 6.3V
CM08	1	1	1	OA10800610	Elect 1000μ F 6.3V
CM09	1	1	1	DF75222530	Film 0.0022μF ±5%
CM10	1	1	1	DF75222530	Film 0 0022μF ±5%
CM11	1	1	1	DF75222530	Film 0.0022μF ±5%
CM12	1	1	1	DF75222530	Film 0.0022μF ±5%
CM15	1	1	1	OA10602510	Elect 10μ F 25V
CM16	1	1	1	OA10602510	Elect 10μ F 25V
CM17	1	1	1	DF35470520	Mica 47p F ±5%
CM18	1	1	1	DF35470520	Mica 47p F ±5%
CM19	1	1	1	OA10801610	Elect 1000μF 16V
CM20	1	1	1	OA10801610	Elect 1000μF 16V
CM23	1	1	1	DF75152530	Film 0.0015μF ±5%
CM24	1	1	1	DF75152530	Film 0.0015μF ±5%
CM25	1	1	1	OA47701610	Elect 470μ F 16V
CM26	1	1	1	OA47701610	Elect 470μ F 16V
CM27	1	1	1	OA47701610	Elect 470μ F 16V
CM28	1	1	1	OA47701610	Elect 470μ F 16V

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
C401	1	1	1	DF35101520	Mica 100p F ±5%
C402	1	1	1	DF35101520	Mica 100p F ±5%
C403	1	1	1	OA10800610	Elect 1000μ F 6.3V
C404	1	1	1	OA10800610	Elect 1000μ F 6.3V
C405	1	1	1	OA10800610	Elect 1000μ F 6.3V
C406	1	1	1	OA10800610	Elect 1000μ F 6.3V
C407	1	1	1	DF75222530	Film 0.0022μ F ±5%
C408	1	1	1	DF75222530	Film 0.0022μ F ±5%
C409	1	1	1	DF75222530	Film 0.0022μ F ±5%
C410	1	1	1	DF75222530	Film 0.0022μ F ±5%
C411	1	1	1	DF75152530	Film 0.0015μF ±5%
C412	1	1	1	DF75152530	Film 0.0015μF ±5%
C413	1	1	1	DF55681520	Film 680p F ±5%
C414	1	1	1	DF55681520	Film 680p F ±5%
C415	1	1	1	DF55332520	Film 3300p F ±5%
C416	1	1	1	DF55332520	Film 3300p F ±5%
C417	1	1	1	DF74104010	Film 0.1μ F ±2%
C418	1	1	1	DF74104010	Film 0.1μ F ±2%
C421	1	1	1	DF74333010	Film 0.033μ F ±2%
C422	1	1	1	DF74333010	Film 0.033μ F ±2%
C423	1	1	1	DF75123530	Film 0.012μF ±5%
C424	1	1	1	DF75123530	Film 0.012μF ±5%
C425	1	1	1	OA22505010	Elect 2.2μ F 50V
C426	1	1	1	OA22505010	Elect 2.2μ F 50V
C427	1	1	1	OA22602510	Elect 22μ F 25V
C428	1	1	1	OA22602510	Elect 22μ F 25V
C433	1	1	1	EA22705060	Elect 220μ F 50V
C434	1	1	1	EA22705060	Elect 220μ F 50V
C435	1	1	1	EA22705060	Elect 220μ F 50V
C436	1	1	1	EA22705060	Elect 220μ F 50V
C447	1	1	1	OA22505010	Elect 2.2μ F 50V
C448	1	1	1	OA22505010	Elect 2.2μ F 50V
C449	1	1	1	OA22602510	Elect 22μ F 25V
C450	1	1	1	OA22602510	Elect 22μ F 25V
					P400-RESISTORS (All Resistors are ±5% and ¼W)
RL01	1	1	1	GD05224140	220KΩ
RL02	1	1	1	GD05224140	220KΩ
RL03	1	1	1	GD05471140	470Ω
RL04	1	1	1	GD05471140	470Ω
RL05	1	1	1	GD05222140	2.2KΩ
RL06	1	1	1	GD05222140	2.2KΩ
RL07	1	1	1	GD05222140	2.2KΩ
RL08	1	1	1	GD05222140	2.2KΩ
RL09	1	1	1	GD05561140	560Ω
RL10	1	1	1	GD05561140	560Ω
RL11	1	1	1	GD05561140	560Ω
RL12	1	1	1	GD05561140	560Ω
RL13	1	1	1	GD05102140	1KΩ
RL14	1	1	1	GD05102140	1KΩ
RL15	1	1	1	GD05393140	39KΩ
RL16	1	1	1	GD05393140	39KΩ
RL17	1	1	1	GD05102140	1KΩ
RL18	1	1	1	GD05102140	1KΩ
RL19	1	1	1	GD05181140	180Ω
RL20	1	1	1	GD05181140	180Ω

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION	
RL21	1	1	1	GD05822140	8.2KΩ	
RL22	1	1	1	GD05822140	8.2KΩ	
RL23	1	1	1	GD05391140	390Ω	
RL24	1	1	1	GD05391140	390Ω	
RL25	1	1	1	GD05222140	2.2KΩ	
RL26	1	1	1	GD05222140	2.2KΩ	
RL27	1	1	1	GD05222140	2.2KΩ	
RL28	1	1	1	GD05222140	2.2KΩ	
RL29	1	1	1	GD05222140	2.2KΩ	
RL30	1	1	1	GD05222140	2.2KΩ	
RL31	1	1	1	GD05222140	2.2KΩ	
RL32	1	1	1	GD05222140	2.2KΩ	
RL33	1	1	1	GD05331140	330Ω	
RL34	1	1	1	GD05331140	330Ω	
RL35	1	1	1	GD05331140	330Ω	
RL36	1	1	1	GD05331140	330Ω	
RL37	1	1	1	GD05563140	56KΩ	
RL38	1	1	1	GD05563140	56KΩ	
RL39	1	1	1	GD05563140	56KΩ	
RL40	1	1	1	GD05563140	56KΩ	
RL41	1	1	1	GD05562140	5.6KΩ	
RL42	1	1	1	GD05562140	5.6KΩ	
RL43	1	1	1	GD05122140	5.1KΩ	
RL44	1	1	1	GD05122140	5.1KΩ	
RL47	1	1	1	GG05330140	33Ω	
RL48	1	1	1	GG05330140	33Ω	
RL49	1	1	1	GG05330140	33Ω	
RL50	1	1	1	GG05330140	33Ω	
RL53	1	1	1	GG05100140	10Ω	
RL54	1	1	1	GG05100140	10Ω	
RL55	1	1	1	GG05100140	10Ω	
RL56	1	1	1	GG05100140	10Ω	
RL57	1	1	1	GG05101140	100Ω	
RL58	1	1	1	GG05101140	100Ω	
RL59	1	1	1	GG05101140	100Ω	
RL60	1	1	1	GG05101140	100Ω	
RL61	1	1	1	GG05100120	100Ω	
RL62	1	1	1	GG05100120	100Ω	
RL63	1	1	1	GG05100120	100Ω	
RL64	1	1	1	GG05100120	100Ω	
RL65	1	1	1	GA05100010	10Ω	1W
RL66	1	1	1	GA05100010	10Ω	1W
RL67	1	1	1	GD05103140	10KΩ	
RL68	1	1	1	GD05103140	10KΩ	
RL69	1	1	1	GA05101020	100Ω	2W
RL70	1	1	1	GA05101020	100Ω	2W
RL71	1	1	1	GD05103140	10KΩ	
RL72	1	1	1	GD05103140	10KΩ	
RL75	1	1	1	GD05273140	27KΩ	
RL76	1	1	1	GD05273140	27KΩ	
RL77	1	1	1	GD05302140	3KΩ	
RL78	1	1	1	GD05302140	3KΩ	
⚠RL81	1	1	1	GG05100140	10Ω	
⚠RL82	1	1	1	GG05100140	10Ω	
⚠RL83	1	1	1	GG05100140	10Ω	
⚠RL84	1	1	1	GG05100140	10Ω	
RL91	1	1	1	GD05222140	2.2KΩ	
RL92	1	1	1	GD05222140	2.2KΩ	
RL93	1	1	1	GD05474140	470KΩ	
RL94	1	1	1	GD05474140	470KΩ	
RL95	1	1	1	GD05101140	100Ω	
RL96	1	1	1	GD05101140	100Ω	

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION	
RM01	1	1	1	GM21418000	180Ω	±2%
RM02	1	1	1	GM21418000	180Ω	±2%
RM03	1	1	1	GM21422000	220Ω	±2%
RM04	1	1	1	GM21422000	220Ω	±2%
RM07	1	1	1	GM21447000	470Ω	±2%
RM08	1	1	1	GM21447000	470Ω	±2%
RM09	1	1	1	GM21447000	470Ω	±2%
RM10	1	1	1	GM21447000	470Ω	±2%
RM11	1	1	1	GM21422010	2.2KΩ	±2%
RM12	1	1	1	GM21422010	2.2KΩ	±2%
RM13	1	1	1	GM21456010	5.6KΩ	±2%
RM14	1	1	1	GM21456010	5.6KΩ	±2%
RM19	1	1	1	GM21447000	470Ω	±2%
RM20	1	1	1	GM21447000	470Ω	±2%
RM21	1	1	1	GM21447000	470Ω	±2%
RM22	1	1	1	GM21447000	470Ω	±2%
RM23	1	1	1	GG05011140	1.1Ω	
RM24	1	1	1	GG05011140	1.1Ω	
RM25	1	1	1	GD05680140	68Ω	
RM26	1	1	1	GD05680140	68Ω	
RM27	1	1	1	GD05680140	68Ω	
RM28	1	1	1	GD05680140	68Ω	
RM29	1	1	1	GD05472140	4.7KΩ	
RM30	1	1	1	GD05472140	4.7KΩ	
RM31	1	1	1	GD05272140	2.7KΩ	
RM32	1	1	1	GD05272140	2.7KΩ	
RM33	1	1	1	GD05332140	3.3KΩ	
RM34	1	1	1	GD05332140	3.3KΩ	
RM35	1	1	1	GG05100140	10Ω	
RM36	1	1	1	GG05100140	10Ω	
RM37	1	1	1	GG05100140	10Ω	
RM38	1	1	1	GG05100140	10Ω	
RM39	1	1	1	GD05101140	100Ω	
RM40	1	1	1	GD05101140	100Ω	
RM41	1	1	1	GD05273140	27KΩ	
RM42	1	1	1	GD05273140	27KΩ	
RM43 ≀ RM46	4	4	4	GA05471020	470Ω	½W
RM47	1	1	1	GD05153140	15KΩ	
RM51	1	1	1	GG05220140	220Ω	
RM52	1	1	1	GG05220140	220Ω	
R401	1	1	1	GM21439020	39KΩ	±2%
R402	1	1	1	GM21439020	39KΩ	±2%
R403	1	1	1	GM21410030	100KΩ	±2%
R404	1	1	1	GM21410030	100KΩ	±2%
R405	1	1	1	GM21410030	100KΩ	±2%
R406	1	1	1	GM21410030	100KΩ	±2%
R407	1	1	1	GM21410030	100KΩ	±2%
R408	1	1	1	GM21410030	100KΩ	±2%
R409	1	1	1	GM21410010	1KΩ	±2%
R410	1	1	1	GM21410010	1KΩ	±2%
R411	1	1	1	GM21410010	1KΩ	±2%
R412	1	1	1	GM21410010	1KΩ	±2%
R413	1	1	1	GM21410010	1KΩ	±2%
R414	1	1	1	GM21410010	1KΩ	±2%
R415	1	1	1	GD05822140	8.2KΩ	
R416	1	1	1	GD05822140	8.2KΩ	
R417	1	1	1	GD05682140	6.8KΩ	
R418	1	1	1	GD05682140	6.8KΩ	
R419	1	1	1	GD05822140	8.2KΩ	
R420	1	1	1	GD05822140	8.2KΩ	

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
R421	1	1	1	GD05682140	6.8KΩ
R422	1	1	1	GD05682140	6.8KΩ
R423	1	1	1	GD05151140	150Ω
R424	1	1	1	GD05151140	150Ω
R425	1	1	1	GD05151140	150Ω
R426	1	1	1	GD05151140	150Ω
R427	1	1	1	GM21459020	59KΩ ±2%
R428	1	1	1	GM21459020	59KΩ ±2%
R429	1	1	1	GM21459010	59KΩ ±2%
R430	1	1	1	GM21459020	59KΩ ±2%
R431	1	1	1	GM214390G0	39Ω ±2%
R432	1	1	1	GM214390G0	39Ω ±2%
R433	1	1	1	GD05272140	2.7KΩ
R434	1	1	1	GD05272140	2.7KΩ
R435	1	1	1	GD05272140	2.7KΩ
R436	1	1	1	GD05272140	2.7KΩ
R437	1	1	1	GD05151140	150Ω
R438	1	1	1	GD05151140	150Ω
R439	1	1	1	GD05151140	150Ω
R440	1	1	1	GD05151140	150Ω
R441	1	1	1	GD05182140	1.8KΩ
R442	1	1	1	GD05182140	1.8KΩ
R443	1	1	1	GD05272140	2.7KΩ
R444	1	1	1	GD05272140	2.7KΩ
R449	1	1	1	GG05100140	10Ω
R450	1	1	1	GG05100140	10Ω
R451	1	1	1	GG05100140	10Ω
R452	1	1	1	GG05100140	10Ω
R453	1	1	1	GM21422010	2.2KΩ ±2%
R454	1	1	1	GM21422010	2.2KΩ ±2%
R457	1	1	1	GD05473140	47KΩ
R458	1	1	1	GD05473140	47KΩ
R459	1	1	1	GM21436000	360Ω ±2%
R460	1	1	1	GM21436000	360Ω ±2%
⚠R461	1	1	1	GG05820120	82Ω ½W
⚠R462	1	1	1	GG05820120	82Ω ½W
⚠R463	1	1	1	GG05820120	82Ω ½W
⚠R464	1	1	1	GG05820120	82Ω ½W
R465	1	1	1	GD05222140	2.2KΩ
R466	1	1	1	GD05222140	2.2KΩ
R467	1	1	1	GD05224140	220KΩ
R468	1	1	1	GD52224140	220KΩ
R469	1	1	1	GD05151140	150Ω
R470	1	1	1	GD05151140	150Ω
					P400-SEMICONDUCTORS
QL01	1	1	1	HC10043050	IC 2SK150GR
QL02	1	1	1	HC10043050	IC 2SK150GR
QL03	1	1	1	HT322592F0	Transistor 2SC2259 (F or G)
QL04	1	1	1	HT322592F0	Transistor 2SC2259 (F or G)
QL05	1	1	1	HD20011050	Diode 1S1555
QL06	1	1	1	HD20011050	Diode 1S1555
QL07	1	1	1	HD20011050	Diode 1S1555
QL08	1	1	1	HD20011050	Diode 1S1555
QL09	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QL10	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
QL11	1	1	1	HD20011050	Diode 1S1555
QL12	1	1	1	HD20011050	Diode 1S1555
QL13	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL14	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL15	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QL16	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QL17	1	1	1	HD20011050	Diode 1S1555
QL18	1	1	1	HD20011050	Diode 1S1555
QL19	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL20	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL21	1	1	1	HD20014010	Diode 1SS81
QL22	1	1	1	HD20014010	Diode 1SS81
QL23	1	1	1	HD20014010	Diode 1SS81
QL24	1	1	1	HD20014010	Diode 1SS81
QL25	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL26	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QL27	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QL28	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QL29	1	1	1	HT323202B0	Transistor 2SC2320 (E or F)
QL30	1	1	1	HT323202B0	Transistor 2SC2320 (E or F)
QL31	1	1	1	HT406661C0	Transistor 2SD666 (C)
QL32	1	1	1	HT406661C0	Transistor 2SD666 (C)
QL33	1	1	1	HT206461C0	Transistor 2SB646 (C)
QL34	1	1	1	HT206461C0	Transistor 2SB646 (C)
QL35	1	1	1	HT322382E0	Transistor 2SC2238 (O or Y)
QL36	1	1	1	HT322382E0	Transistor 2SC2238 (O or Y)
QL37	1	1	1	HT109682E0	Transistor 2SA968 (O or Y)
QL38	1	1	1	HT109682E0	Transistor 2SA968 (O or Y)
QL43	1	1	1	HD20005010	Diode WO6B
QM01	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM02	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM05	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM06	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM09	1	1	1	HT110831E0	Transsitor 2SA1083 E)
QM10	1	1	1	HT110831E0	Transistor 2SA1083 (E)
QM13	1	1	1	HT110831E0	Transistor 2SA1083 (E)
QM14	1	1	1	HT110831E0	Transistor 2SA1083 (E)
QM17	1	1	1	HT110831E0	Transistor 2SA1083 (E)
QM18	1	1	1	HT110831E0	Transistor 2SA1083 (E)
QM19	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM20	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM21	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM22	1	1	1	HT325451E0	Transistor 2SC2545 (E)
QM23	1	1	1	HT406661C0	Transistor 2SD666 (C)
QM24	1	1	1	HT406661C0	Transistor 2SD666 (C)
QM25	1	1	1	HT206461C0	Transistor 2SB646 (C)
QM26	1	1	1	HT206461C0	Transistor 2SB646 (C)
Q401	1	1	1	HF201472B0	F.E.T. 2SK147 (BR or V)
Q402	1	1	1	HF201472B0	F.E.T. 2SK147 (BR or V)
Q403	1	1	1	HF100722B0	F.E.T. 2SJ72 (BR or V)
Q404	1	1	1	HF100722B0	F.E.T. 2SJ72 (BR or V)
Q409	1	1	1	HT322401B0	Transistor 2SC2240 (BL)
Q410	1	1	1	HT322401B0	Transistor 2SC2240 (BL)
Q411	1	1	1	HT109701B0	Transistor 2SA970 (BL)
Q412	1	1	1	HT109701B0	Transistor 2SA970 (BL)
Q413	1	1	1	HT109701A0	Transistor 2SA970 (BL)
Q414	1	1	1	HT109701A0	Transistor 2SA970 (BL)

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
Q415	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
Q416	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
Q417	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q418	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q419	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q420	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q421	1	1	1	HT323201F0	Transistor 2SC2320F (F)
Q422	1	1	1	HT323201F0	Transistor 2SC2320F (F)
Q423	1	1	1	HT322382E0	Transistor 2SC2238 (O or Y)
Q424	1	1	1	HT322382E0	Transistor 2SC2238 (O or Y)
Q425	1	1	1	HT109682E0	Transistor 2SA968 (O or Y)
Q426	1	1	1	HT109682E0	Transistor 2SA968 (O or Y)
Q427	1	1	1	HD20014010	Diode 1SS81
Q428	1	1	1	HD20014010	Diode 1SS81
Q429	1	1	1	HD20014010	Diode 1SS81
Q430	1	1	1	HD20014010	Diode 1SS81
					P400-MISCELLANEOUS
SL01	1	1	1	SP02020490	Push Switch
SL02	1	1	1	SP02020490	Push Switch
S401	1	1	1	SS06060070	Slide Switch
S402	1	1	1	SR00050110	Rotary Switch
⚠LL01	1	1	1	LY20240010	Relay
					P800-POWER SUPPLY CIRCUIT BOARD
P800	1	1	1	YK227H0200	P.W. Board, Power Supply
	1			ZZ227H0200	P.W. Board Assembly
		1		ZZ227H8200	P.W. Board Assembly
					P800-CAPACITORS
CD01	1	1	1	OA10701010	Elect 100μF 10V
CD02	1	1	1	DF75103530	Film 0.01μF ±5%
CD04	1	1	1	OA47505010	Elect 4.7μF 50V
CD05	1	1	1	OA10505010	Elect 1μF 50V
⚠C801	1	1		EB10805080	Elect 1000μF 50V
⚠C801			1	OB82706310	Elect 820μF 63V
⚠C802	1	1		EB10805080	Elect 1000μF 50V
⚠C802			1	OB82706310	Elect 820μF 63V
⚠C803	1	1		EB10805080	Elect 1000μF 50V
⚠C803			1	OB82706310	Elect 820μF 63V
⚠C804	1	1		EB10805080	Elect 1000μF 50V
⚠C804			1	OB82706310	Elect 820μF 63V
C805	1	1	1	DF35101520	Mica 100pF ±5%
C806	1	1	1	DF35101520	Mica 100pF ±5%
C809	1	1	1	OA10505010	Elect 1μF 50V
C810	1	1	1	OA10505010	Elect 1μF 50V
C811	1	1		EB10805080	Elect 1000μF 50V
C811			1	OB82706310	Elect 820μF 63V
C812	1	1		EB10805080	Elect 1000μF 50V
C812			1	OB82706310	Elect 820μF 63V
C815	1	1		DK18103510	Ceramic 0.01μF
C816	1	1		DK18103510	Ceramic 0.01μF
C817	1	1		DK18103510	Ceramic 0.01μF
C818	1	1		DK18103510	Ceramic 0.01μF

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					P800-RESISTORS (All Resistors are ±5% and ¼W)
RD01	1	1	1	GD05304140	300KΩ
RD02	1	1	1	GD05103140	10KΩ
RD03	1	1	1	GD05104140	100KΩ
RD04	1	1	1	GD05103140	10KΩ
RD09	1	1	1	GD05393140	39KΩ
RD10	1	1	1	GD05333140	33KΩ
RD11	1	1	1	GD05333140	33KΩ
RD12	1	1	1	GD05103140	10KΩ
RD13	1	1	1	GG05272120	2.7KΩ ½W
R801	1	1	1	GD05151140	150Ω
R802	1	1	1	GD05151140	150Ω
R803	1	1	1	GD05102140	1KΩ
R804	1	1	1	GD05102140	1KΩ
R805	1	1	1	GG05272120	2.7KΩ ½W
R806	1	1	1	GG05272120	2.7KΩ ½W
R807	1	1	1	GD05183140	18KΩ
R808	1	1	1	GD05183140	18KΩ
R809	1	1	1	GD05472140	4.7KΩ
R810	1	1	1	GD05472140	4.7KΩ
⚠R811	1	1	1	GA05056010	5.6Ω 1W
⚠R812	1	1	1	GA05056010	5.6Ω 1W
R813	1	1	1	GA05562020	5.6KΩ 2W
R815	1	1	1	GA05182020	1.8KΩ 2W
R817	1	1	1	GD05563140	56KΩ
R818	1	1	1	GD05563140	56KΩ
R819	1	1	1	GD05563140	56KΩ
R820	1	1	1	GD05563140	56KΩ
					P800-SEMICONDUCTORS
QD01	1	1	1	HT110152A0	Transistor 2SA1015 (O or Y)
QD02	1	1	1	HT323202B0	Transistor 2SC2320 (E or F)
QD03	1	1	1	HD20011050	Diode 1S1555
QD05	1	1	1	HF200301D0	F.E.T. 2SK30 (Y)
QD06	1	1	1	HD30012010	Zener 24V, Low Noise
QD07	1	1	1	HD20011050	Diode 1S1555
QD08	1	1	1	HD20011050	Diode 1S1555
QD09	1	1	1	HD20014010	Diode 1SS81
QD10	1	1	1	HD20014010	Diode 1SS81
Q801	1	1	1	HT322382E0	Transistor 2SC2238 (O ro Y)
⚠Q802	1	1	1	HT109682E0	Transistor 2SA968 (O or Y)
⚠Q803	1	1	1	HT322402A0	Transistor 2SC2240(GR or BL)
Q804	1	1	1	HT109702A0	Transistor 2SA970 (GR or BL)
Q805	1	1	1	HF200301C0	F.E.T. 2SK30 (Y)
Q806	1	1	1	HF200301C0	F.E.T. 2SK30 (Y)
Q807	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q808	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q809	1	1	1	HD30008010	Zener HZ6B1L
Q810	1	1	1	HD30008010	Zener HZ6B1L
⚠Q811	1	1	1	HD20005010	Diode WO6B
⚠Q812	1	1	1	HD20005010	Diode WO6B
⚠Q813	1	1	1	HD20005010	Diode WO6B
⚠Q814	1	1	1	HD20005010	Diode WO6B
					P800-MISCELLANEOUS
F801		1		FS10100800	Fuse T1A 250V
F802		1		FS10100800	Fuse T1A 250V
J801		1		YJ08000270	Jack, Fuse Folder
J802		1		YJ08000270	Jack, Fuse Folder
J803		1		YJ08000270	Jack, Fuse Folder
J804		1		YJ08000270	Jack, Fuse Folder

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					PE01-TONE AMP (L) CIRCUIT BOARD
PE01	1	1	1	YK227H2730	P.W. Board Tone Amp (L)
	1	1		ZZ227H2730	P.W. Board Assembly
					PE01-CAPACITORS
CE01	1	1	1	OA10505010	Elect 1μF 50V
CE03	1	1	1	DF31100520	Mica 10p F ±5%
CE05	1	1	1	OA10701010	Elect 100μF 10V
CE07	1	1	1	OA10701010	Elect 100μF 10V
CE09	1	1	1	DF75472530	Film 4700p F ±5%
CE11	1	1	1	DF75472530	Film 4700p F ±5%
CE13	1	1	1	DF35560520	Mica 56p F ±5%
CE15	1	1	1	OA10602510	Elect 10μF 25V
CE17	1	1	1	DF31100520	Mica 10p F ±0.5pF
CE19	1	1	1	EQ10602510	Elect 10μF 25V
CE21	1	1	1	DF75563530	Film 0.056μF ±5%
CE23	1	1	1	DF75563530	Film 0.056μF ±5%
CE25	1	1	1	DF75393530	Film 0.039μF ±5%
CE27	1	1	1	DF75472530	Film 4700p F ±5%
CE29	1	1	1	OA10703510	Elect 100μF 35V
CE31	1	1	1	OA10703510	Elect 100μF 35V
					PE01-RESISTORS (All Resistors are ±5% and ¼W)
RE01	1	1	1	GD05224140	220KΩ
RE03	1	1	1	GD05331140	330Ω
RE05	1	1	1	GD05152140	1.5KΩ
RE07	1	1	1	GD05152140	1.5KΩ
RE09	1	1	1	GD05333140	33KΩ
RE11	1	1	1	GD05333140	33KΩ
RE13	1	1	1	GD05330140	33Ω
RE15	1	1	1	GD05330140	33Ω
RE17	1	1	1	GD05224140	220KΩ
RE19	1	1	1	GD05224140	220KΩ
RE21	1	1	1	GD05101140	100Ω
RE23	1	1	1	GD05101140	100Ω
RE25	1	1	1	GD05472140	4.7KΩ
RE27	1	1	1	GD05272140	2.7KΩ
RE29	1	1	1	GD05392140	3.9KΩ
RE31	1	1	1	GG05220140	22Ω
RE33	1	1	1	GG05220140	22Ω
RE35	1	1	1	GD05182140	1.8KΩ
RE37	1	1	1	GD05822140	8.2KΩ
RE39	1	1	1	GD05822140	8.2KΩ
RE41	1	1	1	GD05391140	390Ω
RE43	1	1	1	GD05473140	47KΩ
RE45	1	1	1	GD05224140	220KΩ
RE47	1	1	1	GD05182140	1.8KΩ
⚠RE49	1	1	1	GG05471140	470Ω
⚠RE51	1	1	1	GG05471140	470Ω
⚠RE53	1	1	1	RK05030370	Variable 50K B DETENT
⚠RE55	1	1	1	RK02030580	Variable 20KΩ W DETENT
					PE01-SEMICONDUCTORS
QE01	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QE03	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QE05	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QE07	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QE09	1	1	1	HT323202B0	Transistor 2SC2320 (E or F)
QE11	1	1	1	HT406661C0	Transistor 2SD666 (C)
QE13	1	1	1	HT206461C0	Transistor 2SB646 (C)

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					PE02-TONE AMP (R) CIRCUIT BOARD
PE02	1	1	1	YK227H2740	P.W. Board Tone Amp (R)
	1	1		ZZ227H2740	P.W. Board Assembly
					PE02-CAPACITORS
CE02	1	1	1	OA10505010	Elect 1μF 50V
CE04	1	1	1	DF31100520	Mica 10p F ±0.5pF
CE06	1	1	1	OA10701010	Elect 100μF 10V
CE08	1	1	1	OA10701010	Elect 100μF 10V
CE10	1	1	1	DF75472530	Film 4700p F ±5%
CE12	1	1	1	DF75472530	Film 4700p F ±5%
CE14	1	1	1	DF35560520	Mica 56p F ±5%
CE16	1	1	1	OA10602510	Elect 10μF 25V
CE18	1	1	1	DF31100520	Mica 10p F ±0.5pF
CE20	1	1	1	EQ10602510	Elect 10μF 25V
CE22	1	1	1	DF75563530	Film 0.056μF ±5%
CE24	1	1	1	DF75563530	Film 0.056μF ±5%
CE26	1	1	1	DF75393530	Film 0.039μF ±5%
CE28	1	1	1	DF75472530	Film 4700p F ±5% 100V
CE30	1	1	1	OA10703510	Elect 100μF 35V
CE32	1	1	1	OA10703510	Elect 100μF 35V
					PE02-RESISTORS (All Resistors are ±5% and ¼W)
RE02	1	1	1	GD05224140	220KΩ
RE04	1	1	1	GD05331140	330Ω
RE06	1	1	1	GD05152140	1.5KΩ
RE08	1	1	1	GD05152140	1.5KΩ
RE10	1	1	1	GD05333140	33KΩ
RE12	1	1	1	GD05333140	33KΩ
RE14	1	1	1	GD05330140	33Ω
RE16	1	1	1	GD05330140	33Ω
RE18	1	1	1	GD05224140	220KΩ
RE20	1	1	1	GF05224140	220KΩ
RE22	1	1	1	GD05101140	100Ω
RE24	1	1	1	GD05101140	100Ω
RE26	1	1	1	GD05472140	4.7KΩ
RE28	1	1	1	GD05272140	2.7KΩ
RE30	1	1	1	GD05392140	3.9KΩ
RE32	1	1	1	GG05220140	22Ω
RE34	1	1	1	GG05220140	22Ω
RE36	1	1	1	GD05182140	1.8KΩ
RE38	1	1	1	GD05822140	8.2KΩ
RE40	1	1	1	GD05822140	8.2KΩ
RE42	1	1	1	GD05391140	390Ω
RE44	1	1	1	GD05473140	47KΩ
RE46	1	1	1	GD05224140	220KΩ
RE48	1	1	1	GD05182140	1.8KΩ
RE50	1	1	1	GG05471140	470Ω
RE52	1	1	1	GG05471140	470Ω
RE54	1	1	1	RK05030370	Variable 50K B DETENT
RE56	1	1	1	RK02030580	Variable 20KΩ W DETENT
					PE02-SEMICONDUCTORS
QE02	1	1	1	HT322401A0	Transistor 2SC2240 (GR)
QE04	1	1	1	HT109701A0	Transistor 2SA970 (GR)
QE06	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
QE08	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
QE10	1	1	1	HT323202B0	Transistor 2SC2320 (E or F)
QE12	1	1	1	HT406661C0	Transistor 2SD666 (C)
QE14	1	1	1	HT206461C0	Transistor 2SB646 (C)

- (U): for U.S.A.
- (E): for Europe
- (F): for Japan

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					PG00-BALANCE VR/MODE SWITCH CIRCUIT BOARD
PG00	1	1	1	YK227H2770	P.W. Board, Balance VR/Mode Switch
	1	1		ZZ227H2770	P.W. Board Assembly
					PG00-RESISTOR
RG01	1	1	1	RM01040510	Variable 100KΩ MN Balance
					PG00-MISCELLANEOUS
SG01	1	1	1	SR04050250	Rotary Switch, Mode
					PJ00-LOUDNESS SW. & VOLUME CIRCUIT BOARD
PJ00	1	1	1	YK227H1630	P.W. Board, Loudness SW & Volume
	1	1		ZZ227H1630	P.W. Board Assembly
					PJ00-CAPACITORS
CJ01	1	1	1	DF75683530	Film 0.068μF ±5%
CJ02	1	1	1	DF75683530	Film 0.068μF ±5%
CJ03	1	1	1	DF75473530	Film 0.047μF ±5%
CJ04	1	1	1	DF75473530	Film 0.047μF ±5%
					PJ00-RESISTORS
RJ01	1	1	1	GD05822140	8.2KΩ ±5% ¼W
RJ02	1	1	1	GD05822140	8.2KΩ ±5% ¼W
RJ03	1	1	1	RM01040520	Variable 100KΩ (B)x2 Volume
					PJ00-MISCELLANEOUS
SJ01	1	1	1	SS04040040	Slide Switch
SJ02	1	1	1	SB12470010	Switch Band, FLX
SJ03	1	1	1	SC00030010	Switch, Loudness
					PS01-INPUT SELECTOR SW CIRCUIT BOARD
PS01	1	1	1	YK227H2710	P.W. Board, Input Selector SW.
	1	1		ZZ227H2710	P.W. Board Assembly
					PS01-RESISTORS (All Resistors are ±5% and ¼W)
RS01	1	1	1	GD05561140	560Ω
RS02	1	1	1	GD05561140	560Ω
RS03	1	1	1	GD05221140	220Ω
RS04	1	1	1	GD05221140	220Ω
RS05	1	1	1	GD05221140	220Ω
RS06	1	1	1	GD05221140	220Ω
RS07	1	1	1	GD05392140	3.9KΩ

REF. DESIG.	Q'TY U	E	F	PART NO.	DESCRIPTION
					PS01-SEMICONDUCTOR
QS01	1	1	1	HD20011050	Diode 1S1555
					PS01-MISCELLANEOUS
JS01	1	1	1	YT02040330	Terminal, RCA Pin 4P Gold
JS02	1	1	1	YT02040330	Terminal, RCA Pin 4P Gold
JS03	1	1	1	YT02040330	Terminal, RCA Pin 4P Gold
⚠LS01	1	1	1	LY20240160	Relay, FRL-644D2412BS
SS01	1	1	1	SS08040030	Slide Switch
SS02	1	1	1	SB12170010	Switch Band, FLX
SS03	1	1	1	SC00030010	Switch, Input Selector
SS11	1	1	1	SS04040040	Slide Switch
SS12	1	1	1	SB12470010	Switch Band, FLX
SS13	1	1	1	SC00030010	Switch, Tape Copy
SS21	1	1	1	SS04040060	Slide Switch
SS22	1	1	1	SB12470010	Switch Band, FLX
SS23	1	1	1	SC00030010	Switch, Tape Monitor
					PT00-TONE IN/OUT SWITCH CIRCUIT BOARD
PT00	1	1	1	YK227H2750	P.W. Board, Tone in/out Switch
	1	1		ZZ227H2750	P.W. Board Assembly
					PT00-MISCELLANEOUS
ST01	1	1	1	SC04020150	Switch, Tone
					PX00-HEADPHONE CIRCUIT BOARD
PX00	1	1	1	YK227H1640	P.W. Board, Headphone
	1	1		ZZ227H1640	P.W. Board Assembly
JX01	1	1	1	YJ01001400	Jack, Headphone
					PY00-L.E.D. CIRCUIT BOARD
PY00	1	1	1	YK227H1620	P.W. Board, L.E.D.
	1	1		ZZ227H1620	P.W. Board Assembly
					PY00-SEMICONDUCTOR
⚠QY01	1	1	1	HI10004030	L.E.D.

(W01-99)	Assembly and Wiring
(T01-99)	Adjustment
(X01-00)	Correction

NOTE ON SAFETY :
Symbol ⚠ Fire or electrical shock hazard. Only original parts should be used to replace any part marked with symbol ⚠. Any other component substitution (other than original type), may increase risk of fire or electrical shock hazard.

9. TECHNICAL SPECIFICATIONS

Input Terminals

Phono (MM):	Frequency Responce (RIAA, 20 Hz – 20 kHz)	±0.3 dB
	Signal-to-Noise Ratio ("A" Weighted 7.75 mV Input)	90 dB
	Input Impedance Phono 1	47 k ohms
	Phono 2	100/47/27 k ohms
	Input Sensitivity	2.2 mV
	Input Equivalent Noise ("A" Weighted)	0.24 μV
	Dynamic Range	110 dB
Phono (MC):	Input Impedance	100 ohms
	Input Sensitivity	120 μV
Aux.:	Input Impedance	37 k ohm
	Input Sensitivity	150 mV
	Frequency Response (+0, –1 dB, IHF-A-202)	10 Hz – 100 kHz
	Signal-to-Noise Ratio ("A" Weighted 775 mV Input)	100 dB

Output Voltage, 1 kHz

Tape Out	150 mV
Pre Out	1.5 V

Output Impedance, 1 kHz

Tape Out	560 ohms
Pre Out	100 ohms

GENERAL

Power Requirements	110/120/220/240 V AC, 50/60 Hz (Voltage selection can be done by external voltage selector.)
Power Consumption (at Rated Output, Both Channels Operating)	42 W

Dimensions

Panel Width	473.5 mm
Panel Height	172.5 mm
Depth	266 mm

Weight

Unit alone	8.5 kg

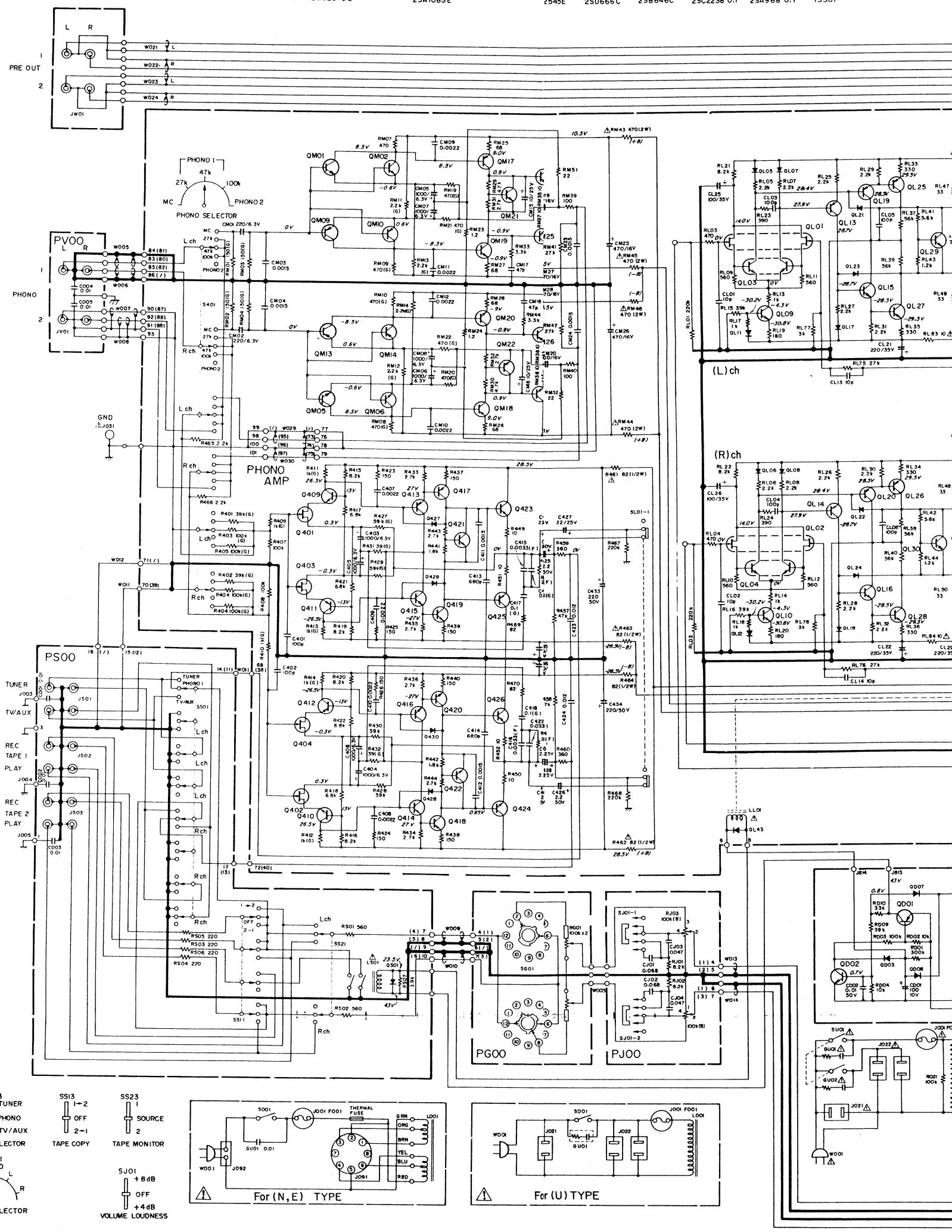
Specifications and appearance are subject to change for modification without notice.

10. SCHEMATIC DIAGRAM

Q401,Q402 2SK147BL | Q403,Q404 2SJ72BL | Q409,Q410,Q415,Q416 2SC2240BL | Q411~Q414 2SA970BL | Q417,Q418 2SA872 DorE | Q419,Q420 2SC1775A DorE | Q421,Q422 2SC2320 E or F | Q423,Q424 2SC2238 0.Y | 5,Q426 968 0.Y | Q427~Q430 1SS81 | Q801 2SC2238 0.Y | Q802 2SA968 0.Y | Q803 2SC2240GR or BL | Q804 2SA970GR or BL | Q805,Q80 2SK30Y

QD01 2SA1050 OorY | QD02 2SC2320 EorF | QD03,QD07~QD10 1S1555 | QD05 2SK30Y | QD06 HZ27L | QE01,QE02 2SC2240GR | QE03,QE04 2SA970GR | QE05,QE06 2SA872A DorE | QE07,QE08 2SC1775A DorE | 509,QE10 SC2320 E or F | QE11,QE12 2SD666C | QE13,QE14 2SB646C | QL01,QL02 2SK150GR | QL03,QL04 2SC2259 | QL05~ QL08,QL11,QL12,QL17,QL18 1S1555

QL29,QL30 2SC2320 EorF | QL31,QL32 2SD666C | QL33,QL34 2SB646C | QL35,QL36 2SC2238 0.Y | QL43 W06B | QM01,QM02,QM05,QM06 2SC2545 E | QM09,QM10,QM13,QM14,QM17,QM18 2SA1083E | ~QM22 2545E | QM23,QM24 2SD666C | QM25,QM26 2SB646C | QM27 2SC2238 0.Y | QM28 2SA968 0.Y | QL21~ QL24 1SS81



NOTE ON SAFETY :
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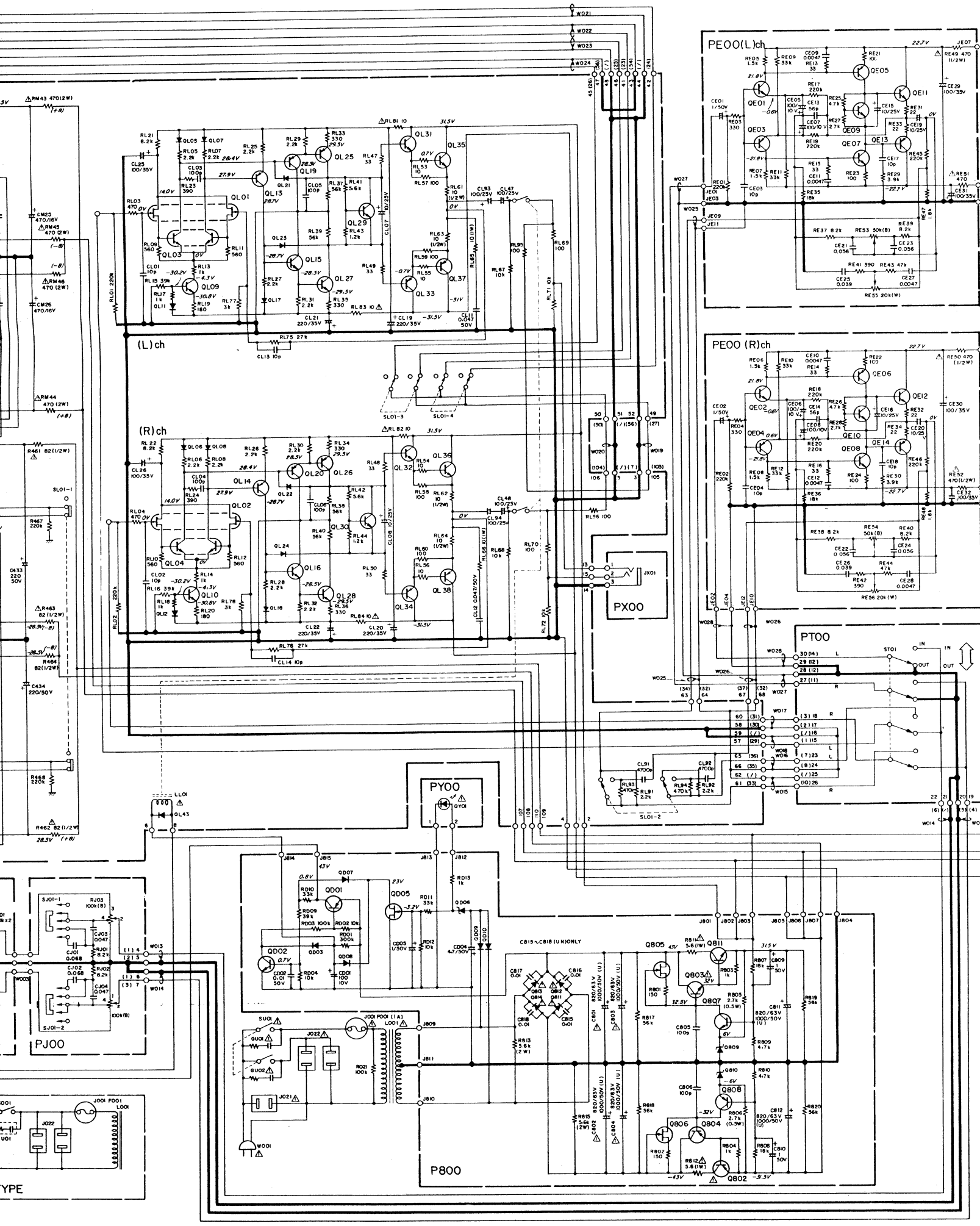
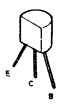
Q427~Q430 1SS81 | Q801 2SC2238 O.Y | Q802 2SA968 O.Y | Q803 2SC2240GR or BL | Q804 2SA970GR or BL | Q805, Q806 2SK30Y | Q807 2SC1775A D or E | Q808 2SA872A D or E | Q809, Q810 HZ6B1L | Q811~Q814 W06B

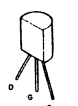
or F | QE11, QE12 2SD666C | QE13, QE14 2SB646C | QL01, QL02 2SK150GR | QL03, QL04 2SC2259 | QL05~QL08, QL11, QL12, QL17, QL18 1S1555 | QL09, QL10, QL15, QL16, QL27, QL28 2SC1775A D or E | QL13, QL14, QL19, QL20, QL25, QL26 2SA872A D or E

QM23, QM24 2SD666C | QM25, QM26 2SB646C | QM27 2SC2238 O.Y | QM28 2SA968 O.Y | QL21~QL24 1SS81

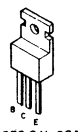




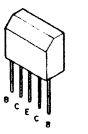
2SC2240B, 2SA970BL
2SA872A D.E, 2SC1775A D.E
2SC2320E.F, 2SA970GR
2SA1050 O.Y, 2SC2545E
2SA1083E, 2SK30Y
2SD666C, 2SB646C



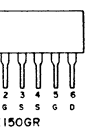
2SJ72BL, 2SK147BL



2SC2238 O.Y, 2SA968 O.Y



2SC2259



2SK150GR

Components and wiring are subject to change for modification without notice.

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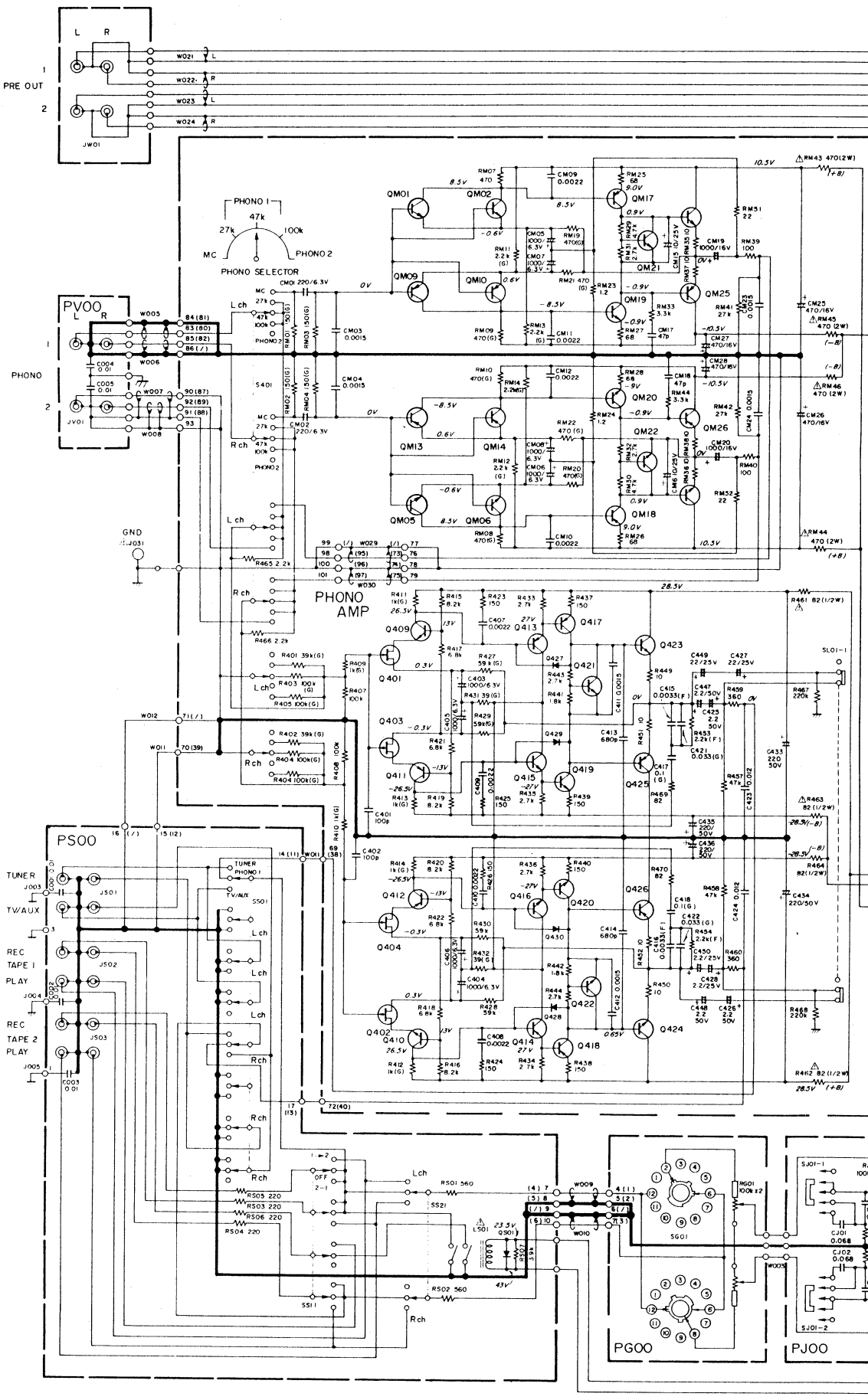
SCH

Q401,Q402 2SK147BL | Q403,Q404 2SJ72BL | Q409,Q410,Q415,Q416 2SC2240BL | Q411∿Q414 2SA970BL | Q417,Q418 2SA872 DorE | Q419,Q420 2SC1775A DorE | Q421,Q422 2SC2320 EorF | Q423,Q424 2SC2238 O.Y | Q425,Q426 2SA968 O.Y | Q427∿Q430 ISS81 | Q801 2SC2238 O.Y | Q802 2SA968 O.Y | Q803 2SC2240GR orBL | Q804 2SA970GR or BL | Q805,Q806 2SK30Y | Q807 2SC1775A

QD01 2SA1050 OorY | QD02 2SC2320 EorF | QD03,QD07∿QD10 1S1555 | QD05 2SK30Y | QD06 HZ27L | QE01,QE02 2SC2240GR | QE03,QE04 2SA970GR | QE05,QE06 2SA872A DorE | QE07,QE08 2SC1775A DorE | QE09,QE10 2SC2320 EorF | QE11,QE12 2SD666C | QE13,QE14 2SB646C | QL01,QL02 2SK150GR | QL03,QL04 2SC2259 | QL05∿QL08,QL11,QL12,QL17,QL18 1S1555 | QL09,QL10,QL15, 2SC1775A DorE

QL29,QL30 2SC2320 EorF | QL31,QL32 2SD666C | QL33,QL34 2SB646C | QL35,QL36 2SC2238 O.Y | QL43 W06B | QM01,QM02,QM05,QM06 2SC2545E | QM09,QM10,QM13,QM14,QM17,QM18 2SA1083E | QM19∿QM22 2SC2545E | QM23,QM24 2SD666C | QM25,QM26 2SB646C | QM27 2SC2238 O.Y | QM28 2SA968 O.Y | QL21∿ QL24 ISS81



NOTE ON SAFETY :

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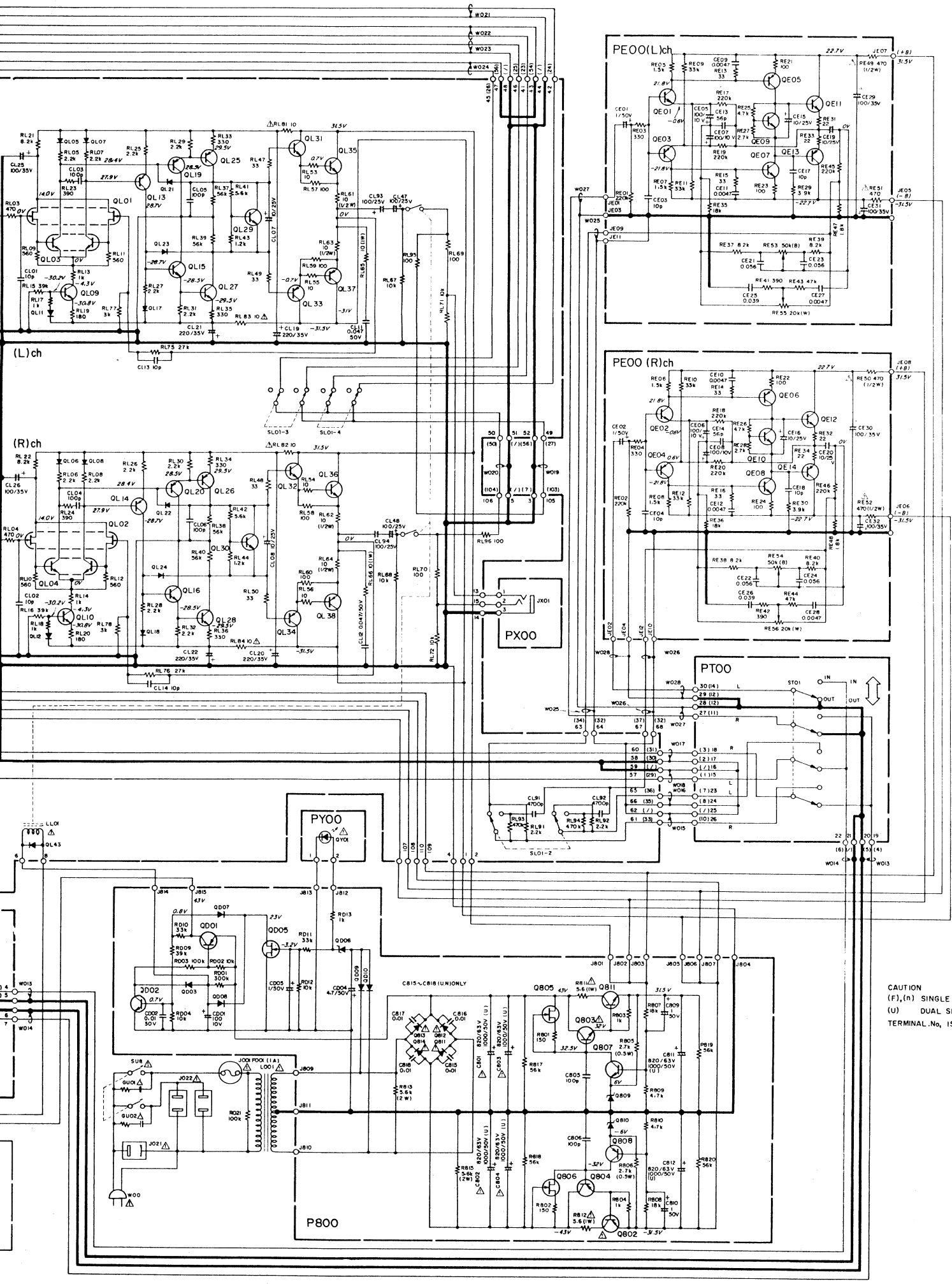
Components and wiring are subject to change for modification witho

SCHEMATIC DIAGRAM FOR Model SC-8

Q802	Q803	Q804	Q805, Q806	Q807	Q808	Q809, Q810	Q811~Q814
O.Y 2SA968 O.Y	2SC2240GR or BL	2SA970GR or BL	2SK30Y	2SC1775A D or E	2SA872A D or E	HZ6B1L	W06B

QL01, QL02	QL03, QL04	QL05~QL08, QL11, QL12, QL17, QL18	QL09, QL10, QL15, QL16, QL27, QL28	QL13, QL14, QL19, QL20, QL25, QL26
2SK150GR	2SC2259	IS1555	2SC1775A D or E	2SA872A D or E

QM27	QM28	QL21~QL24
SC2238 O.Y	2SA968 O.Y	IS581



2SC2240B, 2SA970BL
2SA872A D,E, 2SC1775A D,E
2SC2320E,F, 2SA970GR
2SA1050 O,Y, 2SC2545E
2SA1083E, 2SK30Y
2SD666C, 2SB646C

2SJ72BL, 2SK147BL

2SC2238 O.Y, 2SA968 O.Y

2SC2259

2SK150GR

CAUTION
(F),(n) SINGLE SHILED LINE.
(U) DUAL SHILED LINE.
TERMINAL No. IS (U) TYPE ONLY.

viring are subject to change for modification without notice.

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